



Potential Hazardous Waste Site

Site Inspection Report

HOOKER ROAD BRIDGE DUMP TND 980844229 Chattanooga, Hamilton County, Tennessee



HOOKER ROAD BRIDGE DUMP TND980844229 TABLE OF CONTENTS

Executive Summary

- 1. Introduction
- 2. Site Characterization
- 3. Target Analysis
- 4. Field Investigation
- 5. Summary

Appendix:

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- A. Topographic Map
- B. Owners, PRP's List
- C. Current System Preliminary HRS Score
- D. Analytical Results
- E: Additional Data

HOOKER ROAD BRIDGE DUMP TND980844229

Executive Summary

A. Site History/Description

NAME OF STREET

Mr. and Mrs. Powell have owned this 22 acre site since 1957. Wastes found in the treed section of the site were solids in approximately 15 disintegrated drums, piles of fiber or carpet, and one large pile of tires.

The best probable scenario for the drum dumping is that the drums came from the Dytherm fire in April, 1976 and some were emptied and others left on the site by Mr. Joe Torre between 24 April and 8 May 1976. They were found and reported by Mr. Wright to the Division of Water Quality Control, J. McCormick and Phil Stewart, on 16 June 1976. Around 24 August 1978, there was a fire at this site which consumed most of the drums and bales as reported by P. Stewart.

- B. This dump is in industrial South Chattanooga near Rossville, Georgia. Situated between Lookout Mountain and Missionary Ridge, the site lies 1200 feet east of the Chattanooga Fault. Missionary Ridge was itself formed by a major fault. The entire region is very complex, geologically, by faults, folds, fractures, karst, and sinkholes. The bedrock is Ordovician-Cambrian Knox Group, Undifferentiated, and the soil is Tupelo silt loam where landfills are not present.
- C. Targets potentially affected within a one mile radius of the site there are an estimated 8190 people who sustain a risk from Surface Water in Chattanooga Creek by wading and fishing and by direct contact with wastes on the site. Suspected hazardous substances are foundry sand and baghouse dust, coal tar &

chemical wastes, including napthalene, oils, solvents, dyes, and surfactants.

All of these wastes are from Chattanooga's historical processors. The only
hazardous substance found by sampling was nickel.

The area's drinking water supply is not endangered by this site because there are no wells in use for that need, and public water supplies in Tennessee and Georgia cover the area.

D. Recommendations Concerning Future Activities

The HRS migration score which includes the groundwater and surface water routes is 5.7. The direct contact score is 50.0. Air and fire/explosion routes were not rated.

Because the migration score is less than 25, any further action on this site should revert to the State.

HOOKER ROAD BRIDGE DUMP TND 980844229

1.0 Introduction

A screening SI was performed by the Chattanooga Field Office of Tennessee's Division of Superfund on 24-25 February 1988. Wastes on this site are solid masses deteriorated in drums, bales of carpet material, some roofing shingles, and a large pile of tires.

Waste drums have been attributed to Dytherm, a Chemical Company no longer in business in Chattanooga, and the drums were supposedly hauled to the site by Mr. Joe Torre, a subcontractor of Lyons Wrecking.

2.0 Characterization

2:1 Site Background and History

Mr. Willie Powell owned this property during the dumping in 1976 and the fire in 1978. Except for the contact Mr. Powell had with J. McCormick and P. Stewart, TN Division of Water Quality Control, in 1976 and 78, Mr. Powell was not aware of the drums and bales still on his property in 1988. He thought they had all burned up in 1978. Mr. Powell stated that the drum dumping in 1976 was done without his knowledge.

An owner and PRP list is in Appendix B.

Dust from Callahan Construction Co. was seen on the 20 September 1978 inspection.

This could have been baghouse dust from foundries. Although Lutex Chemical Co. was implicated in the early stages of the investigation in 1976, very little proof exist to indicate that company as the source of the waste drums.

2.2 Site Description-Note the sketch, next page

The upper junkyard part of the site is approximately $\frac{1}{4}$ of the 22 total acreage in size. The site is between Hooker and Stateline Roads and bordered on the west by Chattanooga Creek and its tributary, Dye Branch. The waste in approximately 15 drums and piles may be difficult to remove because of the floodplain (soft earth) and fairly close tree density. The drums and piles are scattered and not tightly bunched.

Within 2000 feet of the site, there are homes and schools to the south and the northwest. In the other directions, the area is either commercial or undeveloped. The site has 2 parts: The north quarter is an open lot used as an auto junkyard and is on top of a raised (approx. 10 feet) landfill, and the south three-quarters is a large wooded lot where the waste is. Dye Branch (also called McFarland Springs Br.) and Chattanooga Creek flow along the west border of the property. The site extends from Hooker Road to State Line Road. To the site's east is an adjacent 25 acre plot also owned by the Powells and used as an auto junkyard. There is a fence or bushes between this junkyard and the junkyard to the southeast, also owned by Mr. Powell. The wooded area to the south has no barriers. The auto junkyard is fenced with an entr gate along Hooker Road.

The junkyard is a typical auto junkyard with some demolition debris, including foundry sand which was used in construction foundations.

2.3 Environmental/Regional Setting

For Census Tract (CT) 23 in Planning District (PD) 2, Chattanooga-Hamilton County, the population is projected to fall 49.% from the year 1980 to 2000. The official 1980 population was 1925 people in this tract alone. CT 23 is one of five tracts in PD2. There are 15 PD's in Hamilton County, Tennessee, which is in the middle of metro Chattanooga. Although there is a small amount of agriculture in this track and district, the area is predominantly urban.

Hooker Rd. Bridge Dump To Bridge # 335 90 Hamilton, Co, TN - 29 Feb 88 FDM HookERRD Yard Woods Mr. Powell) FI CHATTA FIRES) CREEK woods 44 Stateline Rd McFarland Springs Br., also Dye Branch * F= sumple no. 106NE Ft. Oglethorpe-topo

Two schools approximately 1500 feet from the site are the Cedar Hill School in Chattanooga and the Rossville High School in Georgia. There are six churches within 2000 feet of the site. In decreasing order of magnitude, land use for CT 23 is divided into Vacant 44.7%, single family residential 14.7%, duplex and multifamily residential 3.6%, Streets 14.3%, Commercial 9.8%, Industrial 7.9%, Recreation (parks) 0.2%, and Agricultural 0.0%. Much land on the TN side vacant because of flooding and too steep. This PD has much of the city's older industries which include foundries and coal-tar based chemical operations in Alton Park. Generally land use for single family housing is decreasing, and for commercial/industrial companies is increasing. It has been decided that the existing industrial land is underutilized. There are no environmentally sensitive areas within 3 miles of the Site. Just inside a 4 mile circle is Reflection Riding but it is on the opposite side of Chattanooga Creek and Lookout Mountain.

2.4 Hydrology

The one year, 24 hour rainfall is 3.1 inches. Mean annual precipitation is 52 inches.

Drainage from this site goes to the west into Chattanooga Creek and then the Tennessee River. This site is in the Creek's floodplain. The Chattanooga Creek and Dye Branch are known to have polluted and sediment from illegal discharges, past industrial and domestic discharging, and leachate from dumpsites. None of the contamination has been attributed to this specific site.

The public water supplies are all upstream or upgradient from the site. Chattanooga's water is from upstream where the Chattanooga Creek empties into the TN River. Ross-ville's water is purchased from Chattanooga; west of Rossville the water is from Crawfish Springs Lake near Chickamauga which is a town south of Rossville and supplied by the Walker County Water and Sewage Auth_rity (WCWSA).

2.5 Regional Aquifer Characteristics

All acquifers for this site are in the Ordovician Cambrian Knox Group, Undifferentiated.

Wells drilled in this area vary from 30-1300 feet.

The acquifers are used in this region for commercial and industrial purposes only; none is used for drinking. As a result, there is no identified target population from groundwater.

There is no available data on groundwater quality at this specific site.

3.0 Target Analysis

Miles	0-1	1-2	2-3	3–15
Surface Water, pop.	8190	4000	3000	Diluted by River
Groundwater	-	0	0	_
Air	Not rat	ed		
Direct Contact	8190	~	_	<u>.</u>

The targeted population along the 5.6 miles of Chattanooga Creek are affected because the water is used for recreation. As the creek gets closer to the river, the city becomes more industrial and commercial, and less residential so the population figures are less. Surface water is not used for drinking downstream of the site until the town of South Pittsburg, approximately 30 stream miles. No water wells within 3 miles are used for drinking.

4.0 Field Investigation

After the true site location was determined, waste samples from the drums and soil samples near the drums and near the bales together with an appropriate background sample were obtained and submitted for volatiles, extractables, and metals testing. No leachate was observed from the landfill, however, contamination and a change-of-color history for Dye Branch were noted. No stressed vegetation was seen.

5.0 Summary

No imminent hazard was found and because the waste drums, piles, and tires are large stable solids, there is little migration likelihood. The only hazardous substance found by sampling is nickel. Because of the site's location near Alton Park, there is still a possibility of undiscovered contamination.

The migration score is 5.7 and the direct contact score is 50.0. With a low score of 5.7, this site should be referred back to the State for disposition.

Site No. 7ND 980844229

Appendix A
Topographic Map

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

te Name: Lonker Road	Bridge Dimp	· · · · · · · · · · · · · · · · · · ·
ature of Material:		
Map:	Computer Disks:	
Photos:	CD-ROM:	
Blueprints:	Oversized Report:	
Slides:	Log Book:	· · ·
Other (describe): 4 miles	adus map	·
Amount of material:		

Site Tins per.

Hookel RD BRIDGE
TND 980844229

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Silvage Thing Shinkly t y bales | nt m. Povell tires) - on assival. 300 SteSketch trees Theritary P. Steam 9:10 pm 1 45°, rain day before 24 Feb 88 10-15-0/H + detworded dries + 5 dtd

Type of Bale: Compating insulation streeting 25 Feb 88 Wayne Everett Tony Damiano Charley 1 1 2 1 2 diam clums

Clack (hum H)

White the soil latest

White figures

Wheel gray 1 7 Tire pile E : sinfatrole

2/25/88 Thato Log ** Desc. (12 exp. roll) 1 Chota Creek *33590 24 Feb 3pm by Phil U/2 - standard stand 13 Carpeting pile 25Feb FDM 11:20 St amerital best fide 4 #F2 3 Wisterding (Noues junking) 18-90 partially decomposed partoles into tony 3 & on torker Ed 13 Saling Story 12 5 4 13 Waste & from how deam If Which Looking Snew Chile OK 12:45 6 Ble are slight Depression Ft 12N suffere + 6 down, Composite 3 pts. 12,10 7 Tire pile & of photo #6 8 Sinkhole-Nofphoto#6, dumin bkged (approx 10'diam, 4'deep, 1'water) 9 Anta Creek booking N west of Soil b Kgrd

To Looking S. from Northend

= 2 general landscape, trees, beares U Union oil dumb 12:30 12 Dénis deleis fom houre (235) SE consens gard black frohy TS said on right 3 Son Horker Ed (3 Salvage Signs) 12:48

F4 So. L. Son Horker Ed (3 Salvage Signs) 12:48

Le Gard Hooking Snew Crette Ck, 12:45

Brimaginot develope

Thursday to the salvage of the salva FL S. 1 LV-1, 4 w. + Cook 32505

Sampling Log TAPD, WSE time Soil composite, 4 points 11:40 AM point underneath wastedium ノール (Photo ##) Around & drums About 250 St East of Creek 125 Colon-browndirt Wate from drim

Black had 150 Sof F2 FY Soil composite near bales = 1. He Bried drom?) Brown dist mostly, some Chaned? black tumps, FI Soil bkgrd, 1/2 way to Creek
West of Photo # 8
Brown dirt, 3" down 12:15

2/25/88 Fiell Notes no rainin 48 hrs. 4 Firds heard 20 Machberry gum? trees are plentiful
10-20 gs < 10 yrs I sund I down Union Oil Co, oil

10-15 gal? big bung easy-to convou

dispusing volve locked.

Unax AW 150

35 mas 4. At black down in Spile, main yard left 12:45 back1:05 at office)
15 miles Roundtrip (RAM)

Site No. TND 980844229

Appendix B Owner + PRP List

Current Owner:

Willie Powell 2807 Rossville Blvd. (Business) Chattanooga, TN 37407

Off-site Generators:

- Dytherm Chemical Co. (out-of-business)
- 2. Textile Light Chemicals, Inc. P.O. Box 271 Gallaher Road Dalton, GA 30720
- Callahan Construction Co.
 1011 East 38th Street
 Chattanooga, Tennessee 37410

Transporters:

- 1. Lyons Wrecking Service 4615 Maria Street Chattanooga, TN 374//

Site No. TND 980844229

Appendix #C HRS Score + Documentation

	d Bridge Dump			
Location: Hooker Road, Ch	attanooga, Hamilto	in County, TN		· · · · · · · · · · · · · · · · · · ·
EPA Region:IV				
•,				
Person(s) in charge of the facilit	y: <u>Mr. Willie (Ja</u>	s. W.) Powell		
	2807 Rossville	Boulevard		
	Chattanooga, T	N 37407		
Name of Reviewer: Ferman	Miller	Date	s: _15 April 88	
General description of the facility	y:			
(For example: landfill, surface i				
facility; contamination route of a	major concern; types of	information neede	d for rating; agency	action, etc.)
The north quarter of thi	s site is a known	loodfill with		
demolition debris and fo	oundry sand.			·
It was alleged in 1974 7	10 that annual and			
It was alleged in 1976-7	o that organic che	micals, solven	ts, and baghouse	dust
were dumped here. Sampl	es were not taken	then.		
The site is on Hooker Ro			Chattanooga Cree	k
The migration route of mo	•	•		•
reduced Direct Contact fr				
proper action with a low	priority.			
Scores: $S_{M} = 5.7 (S_{SW} = 4.6)$.5 S _{sw} = 8.7 S _a =	.0.0)		· · · · · · · · · · · · · · · · · · ·
S== =Not rated				
• -	•			
$S_{00} = 50.0$	•	• :		i

FIGURE 1 HRS COVER SHEET

and the same the same of the s	Ground Water Route Work Shee	t		•	
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section
1 Observed Release	<u>(0)</u> 45	1	0	45	3.1
	en a score of 45, proceed to line 4. en a score of 0, proceed to line 2.				
Route Characteristics Depth to Aquifer of Concern	0 1 (2) 3	2	4	6	3.2
Net Precipitation Permeability of the Unsaturated Zone	0 1 2 3 0 Ø 2 3	1 1	3 1	3 3	·
Physical State	0 1 2 3)	1	3	3	
	Total Route Characteristics Score		11.	15	
3 Containment	0 1 2 3	1	3	3	3.3
Waste Characteristics Toxicity/Persistence Hazardous Waste	0 3 6 9 12 15 (18) 0 1 2 3 4 5 6 7 (8)	1 1	8 8	18 8	3.4
Cuantity		7			
				•	
	Total Waste Characteristics Score	2	6	25	
Targets . Ground Water Use Distance to Nearest Well/Population Served	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3 ;	3	9 40	3.5
G5. 76G	7 24 30 32 33 40	. :		·	
	Total Targets Score		3	49	·
If line 1 is 45, multiply 1 is 0, multiply 1	7 x 2 x 5] x 3 x 4 x 5	2	574	57,330	
Divide line 5 by 57.330 a	nd multiply by 100 S	gw = 4	.5		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

		en de la companya de La companya de la companya del companya de la companya del companya de la c	Surface Water F	loute Work S	heet	who has a district	an hada ha	Free is Makey a w
. •	Rating Factor		Assigned \ (Circle O		Multi- plier	Score	Max. Score	Ref. (Section
	1 Observed Release	ase	0	45	1	0	45	4.1
			n a value of 45, proce n a value of 0, proce		4.			
	Route Character Facility Slope Terrain		ning @ 1 2 3	•	1	0	3	4.2
	1-yr. 24-hr. Ra Distance to Ne Water		0 1 2 3 ce 0 1 2 3		1 2	3 6	3 6	•
	Physical State	؛	0 1 2 3		1	3	3	
			Total Poute Charact	eristics Score	•	12	15	
-	3 Containment		0 1 2 (3)		1	3	3	4.3
	Waste Character Toxicity/Persis Hazardous Wa. Quantity	stence	0 3 5 9 1 0 1 2 3	2 15 (18) 4 5 6 7 (1 8) 1	18 8	18	4.4
		1	otal Wasta Characte	eristics Score		26	25	· ·: :::::::::::::::::::::::::::::::::
	Targets Surface Water Distance to a S Environment		0 1 (2)	3 3		6 0	9 6	4.5
	Population Service Water Intak Downstream		2 4 6 12 15 18 2 24 30 32	8 10 20 85 40	1 .	0	43	
			Total Targets	Score	6		55	
=======================================		multiply []	x 4 x 5 x 3 x 4 x 1	<u> </u>	5	616	4.350	
	Divide line 📵 b	y 54,350 and	d multiply by 190	· · · · · · · · · · · · · · · · · · ·	S _{SW} =	8.7		

FIGURE 7
SUBFACE WATER ROUTE WORK SHEFT

Rating Factor	Assigned Value (Circle One)	Multi- plier Score	Max. R Score (Sec
1 Observed Release	0 45	1	45 5
Date and Location:			
Sampling Protocol:			
	- 0. Enter on line 5. roceed to line 2.		,
Waste Characteristics Reactivity and Incompatibility Toxicity Hazardous Waste Quantity	0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7	1 3 8 1	3 9 8
	Total Waste Characteristics Score		20
Targets Population Within 4-Mile Radius Distance to Sensitive Environment Land Use) 0 9 12 15 18) 21 24 27 30 0 1 2 3	1 2 1	5. 30 6 3
	Total Targets Score		39
			

FIGURE 9
AIR ROUTE WORK SHEET

	Company of the Compan			n om til find film film film film film film film film
			S	s ²
Gr	oundwater Route Score (Sgw)		4.5	20,2
Su	rface Water Route Score (S _{sw})		8.7	75.7
Air	Route Score (Sa)		0	0
	$S_{gw}^2 + S_{sw}^2 + S_a^2$			95.9
V	$s_{gw}^2 + s_{sw}^2 + s_a^2$			9.8
V	$S_{gw}^2 + S_{sw}^2 + S_a^2 / 1.73 =$	S _M =		5.7

FIGURE 10
WORKSHEET FOR COMPUTING SM

	NOT RATED	, !	Fire	and	1 Ex	(plo	sio	n W	ork	. Sh	eet	:		98084		
	Rating Factor			Ass (C	ign	ed \	Valu (ne)	1e						Score	l i	(Section
Direct Evidence	Containment	:	1				٠.	3				1			3	7.1
Ignitability	2 Waste Characteristics															7.2
Reactivity	Direct Evidence		0			3			•	٠.		1			3	
Reactivity	Ignitability		0	1	2	3			٠.			11		•	3	
Incompatibility			0	1	2	3		. •				1			3	
Total Waste Characteristics Score 20 20 23 25 20 20 20 20 20 20 20	-	•	0	1	2	3		. · · ·		٠		1	•	•	3	
Total Waste Characteristics Score 20 3 Targets Distance to Nearest 0 1 2 3 4 5 1 5 Population Distance to Nearest 0 1 2 3 1 3 Building Distance to Sensitive 0 1 2 3 1 3 Environment Land Use 0 1 2 3 1 3 3 Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24			0	1	2	3	4	5	6	7	8	1.		11	8	
Targets 7.3	Quantity												-	1		
Targets 7.3									٠.							
Targets 7.3	·								į							•
Targets 7.3													•		·	
Targets 7.3										<u> </u>					T .	T
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Distance to Nearest 0 1 2 3 1 3 Building Distance to Sensitive 0 1 2 3 1 3 Environment Land Use 0 1 2 3 1 3 Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24				٠',			~	J		٠.	·				.	
Building Distance to Sensitive 0 1 2 3 1 3 Environment Land Use 0 1 2 3 1 3 Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24	4		0	1	2	3	. :	·				S 4 1			3	
Distance to Sensitive 0 1 2 3 1 3 Environment Land Use 0 1 2 3 1 3 Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24			•	•	_	•										
Environment Land Use 0 1 2 3 1 3 Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24			0	1	2	3	•	٠.				1			3	
Population Within 0 1 2 3 4 5 1 5 2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24												•				
2-Mile Radius Buildings Within 0 1 2 3 4 5 1 5 2-Mile Radius Total Targets Score 24	Land Use		0	1	2	3		•			£ ;	1			3	
2-Mile Radius Total Targets Score 24		• •	0	1	2	3	4	5		. :		1			5	
Total Targets Score 24	Buildings Within 2-Mile Radius		0	1	2	3	4	5	•		.*	1 .			5	
Total Targets Score 24				,				•					·	* *		
Total Targets Score 24					•				!	•						
Total Targets Score 24											•					
Total Targets Score 24	·								!							
Total Targets Score 24														<i>1</i> 2		
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	•				•			; ;								
				,	•	•	•									
			Te:	ai 1	aro	915	Sc	ore					1		24	
Multiply 1 x 2 x 3 1,440		· · · · · · · · · · · · · · · · · · ·												<u>-</u> !		
	Multiply 1 x 2 x 3							!							1,440	

FIGURE 11 FIRE AND EXPLOSION WORK SHEET

Hooker Road Bridge Dump

Direct Contact Work Sheet

	ter e se se com a como estado como en estado en estado en estado en estado en entre en entre en entre en estad					
	Rating Factor	Assigned Value (Circle One)	Multi-	Score	Max. Score	Ref. (Section
	Observed Incident	<u>(0)</u> 45	1	0	45	8.1
	If line 1 is 45, proceed to					
2	Accessibility	0 1 2 3	1	3	3	8.2
3	Containment	0 (15)	1	15	15	8.3
4	Waste Characteristics Toxicity	0 1 2 3	5	15	15	. <u> </u> 8.4
<u></u> <u> </u>	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 5	を (本) (本) (本) (本) (本) (本) (本) (本) (本) (本)	16 0	20 12	8.5

		Total Targets Score	16	32	
固	If line 1	is 45, multiply 1 x 4 x 5 is 0, multiply 2 x 3 x 4 x 5	10,800	21.500	
7	Divide line	6 by 21,600 and multiply by 100 Spc	50.0	·	·

FIGURE 12 DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: Hooker Road Bridge Dump

FACILITY DESCRIPTION: Unpermitted Dump, Landfill

LOCATION: Hooker Road, Chattanooga, Hamilton County, TN

DATE SCORED: April 15, 1988

PERSON SCORING: Ferman Miller

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.): TN DSF, DSWM, and DWPC Files
Site Inspection Feb. 24-25, 1988, TN-DSF

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:
Air
Fire/Explosion

COMMENTS OR QUALIFICATIONS:

This site is at Mr. Willie Powell's auto junkyard on Hooker Road, southeast of the bridge over Chattanooga Creek. This section of the City is known to have elevated levels of heavy metals from foundry sand and several chemicals from processing industries located nearby. Waste dumping was done over many years in an unauthorized manner.

GROUND WATER ROUTE

OBSERVED RELEASE

Contaminants detected (5 maximum):

Not sampled

Ref #2,3.

Rationale for attributing the contaminants to the facility:

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

The Ordovician-Cambrian Knox Group, Undifferentiated is a dolomite and minor limestone.

Ref #4

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

30 feet

Ref 4

Depth from the ground surface to the lowest point of waste disposal/storage:

Unknown. By observation, the area of Superfund concern is on the surface as drums and bales. The landfill area is not a source of contamination and migration.

McCormick reported spillage of liquid at this site on 6/5/76 (Ref 17, 18, 2)

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

52 inches

Ref. #11
Mean annual lake or seasonal evaporation (list months for seasonal):

37 inches

Net precipitation (subtract the above figures):

15 inches

By difference

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

52 inches

Ref #11
Mean annual lake or seasonal evaporation (list months for seasonal):
36 inches

Ref.#11 16 inches

By difference Permeability of Unsaturated Zone

Soil type in unsaturated zone:
The landfill is Arents, gently sloping.
The soil on the creek plain is Tupelo silt loam

Ref #14, 4
Permeability associated with soil type:
Tupelo Sift Loam is .0004 to .0014 cm/sec.

Ref * 14

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquids include solvents, chemicals, and dyes. Solids are baghouse dust, napthalene, and surfactant.

Ref 15, 16, 17

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill and dumped drums.

Ref. #3

Method with highest score:

Unlined landfill and leaking drums.

Ref #11

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated .

By sampling; metals, extractables, volatiles

Napthalene (mothball odor)
Isopropyl alcohol (by smell)
Methyl benzoate (by smell)
Baghouse dust (visual)= lead, cadmium

Compound with highest score:

Lead and cadmium = 18

Ref: Sax; Hawley, #10

Hazarous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of O (Give a reasonable estimate even if quantity is above maximum):

Although 20 drums of dye carrier from the Dy-Therm Chemical Co. are alleged to have been dumped here in 1976, assume more than 2500 cu. yards of fill were covered.

Ref. 17

Basis of estimating and/or computing waste quantity:

Use the maximum amount of worst case because of the site's suspect history of unregulated dumping and open access from the road.

Ref: EPA, State Policy per G. Caruthers phonecon.

5 TARGETS

Ground Water Use

Use(s) of acuifer(s) of concern within a 3-mile radius of the facility: Commercial and industrial with alternate unthreatened source available.

Ref #9 12 10 Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water <u>supply</u>:
Northwest from the site to the Velsicol Chemical monitoring wells at Residue Hill.

Ref #9
Distance to above well or building:
O.8 mile

Ref: Appendix A

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from acuifer(s) of concern within a 3-mile radius and populations served by each:
None Identified

Ref #3, 9, 12

Computation of land area irrigated by supply well(s) drawing from acuifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None identified

Ref #3, 9, 12
Total population served by ground water within a 3-mile radius: /

None identified

By addition

A CONTRACTOR OF THE SECOND CONTRACTOR OF THE S

ŗ,

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):
Not sampled

Ref #2, 3
Rationale for attributing the contaminants to the facility:
Not Applicable

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent: 0-3%

Ref #3, 4, Appendix A Name/description of nearest downslope surface water:

Dye Branch to Chattanooga Creek

Ref: App. A, #2, 3 Average slope of terrain between facility and above-cited surface water body in percent: 0-3%

Ref #3, App. A Is the facility located either totally or partially in surface water? No, but it is in the flood plan.

Ref # 3,7

Is the facility completely surrounded by areas of higher elevation?

No, but it is in the floodplain

Ref 3,7

1-Year 24-Hour Rainfall in Inches

Is the facility completely surrounded by areas of higher elevation?

No, but the site is two levels. The landfill is approx. 10 feet higher than the land where the drums are.

Ref #2, App. A 1-Year 24-Hour Rainfall in Inches

3.1 inches

Ref #10

Distance to Nearest Downslope Surface Water

Less than 1000 feet.

Ref #3, App. A

Physical State of Waste

Liquids include solvents, chemicals, and dyes. Solids are baghouse dust, napthalene, and surfactant

Ref # 15, 16, 17

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill and dumped drums

Ref #3

Method with highest score:

Unlined landfill and leaking drums.

Ref #11

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Napthalene Isopropanol Methyl Benzoate Baghouse dust Metals, extractables, Volatiles

Compound with highest score:

Lead and chromium in the dust = 18

Rej: Sax, Hawley, #10

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of O (Give a reasonable estimate even if quantity is above maximum):

Although 20 drums of dye carrier from the Dy-Therm Chem Co. are alleged to have been dumped here in 1976, assume more than 2500 cu. yards of fill were covered. Ref. #17

Basis of estimating and/or computing waste quantity:

Use the maximum amount or worst case because of the site's suspect history of unregulated dumping and open access from the road.

Ref: EPA, State policy per G. Caruthers phonecon.

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Chattanooga Creek is used for recreation: Wading, harvesting of frogs, turtles, and fish - presumably for food.

Ref. 5

Is there tidal influence?

No

Ref #2, App. A

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Ref #3, App. A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Ref #3, App. A

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None identified.

Ref #13

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None identified. All known surface water intakes used for public or domestic water supply are greater than 3 miles distant from the site.

Ref #10, App. A

Computation	of	land	area	irric	gated	by.	abo	ve-ci	ted	intake(s)	and
conversion t	o t	opula	ation	(1.5	peopl	eр	рег	acre)	:		

N/A

Total population served:

Zero

By summing

Name/description of nearest of above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles.

N/A

AIR ROUTE Not Rated

OBSERVED RELEASE

Contaminants detected:

Date and Location of detection of contaminants:

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous	Waste	Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION (NOT RATED)

I CONTAINMENT

Hazardous substances present: .

Type of containment, if applicable:

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

	Hazardous \	Waste (Quantity
--	-------------	---------	----------

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident: N/A

ACCESSIBILITY

Describe type of barrier(s):

8 foot high chain link fence with locked gate along Hooker Road side only.

Ref #3

2

3 CONTAINMENT

Type of containment, if applicable: Landfill and dumped drums

Ref #3, 18, 15, 16, 17

WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Napthalene
Isopropanol
Methyl Benzoate
Baghouse dust
Compound with highest score:
Lead and cadmium in the dust = 18

Metals, extractables, Volatiles

5 TARGETS

Population within one-mile radius

8190

Ref: 1980 Chatta/Hamilton County Region Planning Comm. Distance to critical habitat (of endangered species)

None Identified

Ref #12

Site No. TND 9808 44229

Appendix Dan Analytical Results

Site No. 7ND 980844229

Appendix Additional Data

FEDSTATE SUPERFUND 343.38 - REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control

Tennessee Department of Public Health

# 23 can	MileMileMile
IDENTIFICATION: # 33370	
Hamilton County	/ So.
	mary Station NumberDate Collected <u></u> る
Time Collected 12/15 Sample Depth ((t.) Laboratory Number Swy 120
All Results Reported on Dry Weight Basis	
	CTODET N
Conc	
Aluminum as Al Mg/Kg	01108
Arsenic as As Mg/Kg	01003
Barium as Ba Mg/Kg 90 Boron as B Mg/Kg	01008
Cadmium as Cd Mg/Kg /.	4 - 01028
Chromium-total as Cr Mg/Kg 6.	5 01029
Cobalt as Co Mg/Kg	01027
Copper as Cu Mg/Kg 4	
Iron as Fe Mg/Kg	01170
Lead as Pb Mg/Kg /6	
Manganese as Mn Mg/Kg	01053
Mercury-total as Hg Mg/Kg 0.19	
Nickel as Ni Mg/Kg	01068
Selenium as Se Mg/Kg	01148
Silver as Ag Mg/Kg O.	
(Zinc as Zn Mg/Kg 215 5-day B.O.D. 20° C Mg/Kg	
C.O.D. Mg/Kg	
Oxygen uptake Mg/Kg	
Chlorine Demand, 30 min. Mg/Kg	
Cyanide as CN Mg/Kg	
Nitrates as N Mg/Kg	
Ammonia as N Mg/Kg	
Kjeldahl Nitrogen as N Mg/Kg	
Phosphate as P Mg/Kg	
Phenols Mg/Kg	
Oil and Grease Mg/K.g	
Sulfide as S Mg/Kg	
Solids, per cent	
Volatile Solids, per cent	
Silica as SiO2 Mg/Kg	
REMARKS Metals Hot	<u> </u>
REMARKS THE TAIS TOT	71)

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京の 一名 とる **漢語**の とう

Field Log No. 2	Sampling Agency	SWM /FSF	
Laboratory Sample No. Ø <u>1267</u> D	ate Collected 2-25-	/ 88 Date Received: _	2-29-88
Sampled Collected By:	APD	Date Completed	3-7-88
Sample Source & Identification:	Hooker Rd.	Bridge Dump	· ·
	Site # 3359	0	
analy d 3-3-8	8	Sec	liment
10.5133gt HALOG	GENATED VOLATILE OF	· · · · · · · · · · · · · · · · · · ·	
A ML. SAMPLE FROM A SPECUSING ULTRA HIGH PURITY HE G.C. AND ANALYZED USING CHLORINE MODE.	IALLY PREPARED VOA ELIUM. THE TRAP IS 1	BOTTLE IS PURGED ON THEN DESORBED TO A	TRACOR 560 or 57
COLUMN: STARTING TEMP: INITIAL HOLD: PROGRAM RATE: FINAL TEMP: FINAL HOLD:	1% SP-1000/CARBO 45°C 4 MIN. 8° PER MIN. 200°C 18 MIN.	OPACK B	
	ESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethylene 1,1-Dichloroethane Trans-1,2-Dichloroethylene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane	Tr Di 1,1 Tr Ch 1,1 1,1 Mr	s-1,3-Dichloropropene ichloroethylene bromochloromethane 1,2-Trichloroethane ans-1,3-Dichloropropene Chloroethylvinyl ether omoform 1,2,2-Tetrachloroethane trachloroethylene alorobenzene 3-Dichlorobenzene 2-Dichlorobenzene 4-Dichlorobenzene 4-Dichlorobenzene	
Remarks: ND - No.	ne detected		
		in the second second	
			

Field Log No. 2	Sampling A	gency SWM/FSF	
Laboratory Sample No. Ø 1267	Date Collected	7 2-25-88 Date Received	: <u>2-29-88</u>
Sampled Collected By:	APD		d 3-8-88
Sample Source & Identificati	ion: Hooke K	d bridge dump	· .
	Site # 33	590	· · · · · · · · · · · · · · · · · · ·
analyzed	C 3-1-88	Sedin	ent.
10 3087	AROMATIC VOLATI	LE ORGANIC ANALYSIS	
A SML. SAMPLE FROM A USING ULTRA HIGH PURITAND ANALYZED USING A I	SPECIALLY PREPAR TY HELIUM. THE T	ED VOA BOTTLE IS PURGED RAP IS THEN DESORBED TO	ONTO A TENAX TRA A TRACOR 560 G.C
COLUMN: STARTING TEMPINITIAL HOLD: PROGRAM RATE FINAL TEMP: FINAL HOLD:	50°C 4 MIN.	0/0.75% Bentone N.	
COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene Toluene Chlorobenzene Ethyl Benzene p-Xylene m-Xylene o-Xylene Styrene	N D	1,4-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene	
Remarks: ND - N	lone Detectes	1	<u></u>

PH-2398 LAB 9/86 Form 2

TDPH-B-288 Rev.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No.				•	
Laboratory Sample No. 1267MS I	Date Received:	-29-88	Date Com	pleted: 3-7	3-88
Sample Collected By:	APD	· · · ·	_Date Colle	ected: <u>2-25</u>	-88
Sample Source & Identifica	tion: Hooker	Rd.	Bridge	Dump Sr	te_
# 33590					····
			FSE		
Analytical Procedures and 1	reatment of Sam	ple:			
The sediment and a	Omls vol-puse	H,O we	u added	to a 60 m	Irial,
shaken well and the	m punged on	a Takma	r Liquid	Sample Cor	1 cantrato
WITH He T @ 40 mo/nu	• •		υ		_
leyingetion onto a					
F GC-MS. The			U		
from 30° -220°		••			
ing statistics of the second s					·
Comp	ound Requested				
Compound	Compound	•	Compo	ound	•
1.*	8.		15.		•
2. 3.	10.		16.		
4. 5.	11. 12.		18. 19.		
6. 7.	13. 14.	• .	20. 21.		
	fone or me	ff. left.		detected	! !
	sample.	ingi cing	. KELOWE	<u> 461 661 50</u>	
IN TAIN-	sample.	· ·			<u></u>
			·		
		·	 -		

Site # 35590 Stream MileDepth	orioge Dum	SEE DEPARTMENT OF HEALTH AND EN ENVIRONMENTAL LABORATORIES ORGANIC ANALYSIS	19 37 20 3 42 4 8 6	amolin	Received	1: Date <u>22-29-88</u> Time <u>563.00 B</u>	3y
iream MileDepth	ot	Base/Neutral Extractables	在一层	if SW	M;	; DSS; D3012; DOther	
Collected: Date 27 - 35 - 88 Time	12.15 BVA	P D Emergency: D Legal: D Routine: D A	mblent	⊹ II W⊓	1; LIGW;	UWP; UWS; Uother	
ield No 3 Potential Haza	rd	SampleType SampleType Demorgency; Dilegal; DiRoutine; DiA Diriginal Sediment; Dirissue; Diva	iter	Sena	Report u	0	
Cade Method 605	[Yalue*]	Code Method 608, cont.	l Value			Method 610, cont.	Value
39120 benzidine	L NA	34366lendrin aldehyde	ND			Slindeno(1.2.3-cd)pyrene	100
34631 3.3'-dichlorobenzidine		39410 heptachlor	1			naphthalene	ND I
2-05115.5 - alcitlot obetizionic	- LOA B	39420 heptachlor epoxide	PI	P 4		phenanthrene	376
Method 606		39400 toxaphene	ND	:		prene	ND
34292 butylbenzylphthalate	ND	PCB-1016 /1242			<u> </u>	pipy) ene	
39100 bis(2-ethylhexyl)phth		39488 PCB-1221	1-1-		:	Method 611	1 1
39110 dj-n-butylphthalate	91919	39492 PCB-1232	1-1-		34273	Method 611 bis(2-chloroethyl) ether	111
34596 di-n-octylphthalate		39500 PCB-1248	1-1-		34278	bis(2-chloroethoxy)metha	ne l
34336 diethylphthalate		39504 PCB-1254				bis(2-chloroisopropyl)eth	
34341 dimethylphthalate		39508 PCB-1260				4-bromophenylphenyl ethe	
<u> </u>		81649 PCB-1262	1			4-chlorophenylphenyl ethe	
ı Method 607	1	39480 methyoxychlor	1				
34438 n-nitrosodimethylamin	e RD		· · · ·	•		Method 612	
34433 n-nitrosodiphenylamin		I Method 609	1	1 10 12	34386	hexachlorocyclopentadiene	Qr
34428 n-nitroso di-n-propyla		34408 isophorone	11,0		,	hexachlorobutadiene	
		34447 nitrobenzene	V		39700) hexachlorobenzene	
Method 608		346112,4-dinitrotoluene	ND		3458	2-chloronaphthalene	ND
39330 aldrin	PI	34626 2.6-dinitrotolyene	ND		34536	1.2-dichlorobenzene	ND
39337a-BHC	ND				34566	31.3-dichlorobenzene	
39338 b-BHC		Method 610	1 2 2 2		3457	1 1.4-dichlorobenzene	
34259 d-BHC		34205 lacenaph thene	IND			hexachloroethane	
39340lg-BHC	<u> </u>	34200 acenanaphthylene			3455	111.2.4-trichlorobenzene	1
39350 chlordane	ND	34220 anthracene	IV				
38310 4,4'-DDD	<u> </u>	34526 benzo(a)anthracene	379			Other	
39320 4.4'-DDE	8.44	34247 benzo(a)pyrene	384			Chrysene.	430
39300 4.4'-DDT	ND	34230 benzo(b)fluoranthene	NAT		- '	-	
39380 dieldr in	424	34521 benzo(ghi)perylene	851				
34361 endosulfan l	ND	34242 benzo(k) fluoranthene	ND		. · · <u></u>		
34242 endosulfan II		34556 dibenzo(a.h)anthracene	140				
34351 endosulfan sulfate		34376 Nuoranthene	1100		:/ 		
39390lendrin		34381 Nuorene	LVD			<u> </u>	
 Reporting units, unless othe water, μg/L; sediment, μg/ mg/kg; air, μg 		Unit Supervisor: Album Signature of supervisor indicates that approved procedures, where available	the wor	k was	perform	Date: <u>3-30-88</u> ned in accordance with federa ith current quality assurance	— ally e criteria

				19 编建设备	5 . J. J. J.		
ample Source Hooker Rd Bridge	TENK	ESSEE DEP	PARTMENT OF HEALTH	AND ENVIR	ONMENT	Laboratory Number SWM 1726	9 16:05
Site it 33590	Ex. 100 (EM/	VIRONMENTAL LABORA	TORIES		Received: Date(\)2-2-3-33Time_0-1-5	1 Ey Lin
tream MileDepthCount	w Ham	Thon Bun	ORGANIC ANALYSIS	ostables!	Sempling	Agency: DADC: DSUM: DUM: DO	han
nno Man No Quadrant	·)	rui	Sample Priority	actables	If SWM	1. DSW: DSS: D3012: DOther	1101
opo Map NoQuadrant_ollected: Date 07-75-85 Time_17-15	<u>5</u> By	APD D Eme	ergency: D'Legal: D Routir	ne: 🏻 Amblent	If WM:	DGW: DWP: DWS: DOther	
ield No Potential Hazard			Air D'Sediment; D Tissue	; □Water	Send R	Report to	
			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$-u = u^{\frac{1}{2}}$		•	
:							٠
	• •						
Code Halogenated Purgeables	Yalue¥	Code		Value		Acid Extractables	Yalue
Code Halocenated Purceables		34475 t	etrachloroethene		34552	4-chloro-3-methyl phenol	IND
32101 bromodich loromethane		34506 1	1.1-trichloroethane			2-chlorophenol	
34413 bromomethane		345111	1.2-trichloroethane		34601	2.4-dichlorophenol	
32102 carbon tetrachloride		39180 tr	rich loroethene			2.4-dimethylphenol	1
34301 chlorobenzene		39488 tr	richlorofluoromethane		24616	2.4-dinitrophenol	!
34311 chlorcethane		39715 v	inylchloride		34657	2-methyl-4.6-dinitrophenol	
34576 2-chloroethylvinyl ether				_	34591	2-nitrophenol	!
32106 chloroform			Aromatic Purosables -		34646	4-nitrophenol	
34418 chloromethane		34030 t	enzene		39032	P pentachlorophenol	
32105 dibromochloromethane		34301 0	hlorobenzene			heno]	!
34536 1.2-dichlorobenzene		34536 1	.2-dichlorobenzene		34681	2.4.6-trichlorophenol	
34566 1.3-dichlorobenzene			1.3-dichlorobenzene				
34571 1,4-dichlorobenzene		34571	.4-dichlorobenzene			Other	
34668 dichlorodifluoromethane			thylbenzene				
34496 1.1-dichloroethane		34010 t	oluene		(<u>)</u>		
34531 1.2-dichloroethane			m-xylene		<u> </u>	<u> </u>	
34501 1.1-dichloroethene			o-xylene				
34546 trans-1.2-dichloroethene			p-xylene				
34541 1.2-dichloropropane							
34045 cis-1.3-dichloropropene		and the second of	Other Puroeables				
34699 trans-1.3-dichloropropene		34210 8			<u> </u>		
34423 methylene chloride		<u>34215 8</u>	<u>ecrylonitrile</u>		·		
345161 1 2 2-tetrachincoethane	: E				17,00	1	į.

*: Unless otherwise indicated, reporting units are:
air=total μg
soil=μg/Kg
tissue=mg/Kg
water=μg/L

Unit Supervisor: Hubble Date: 3-30-8
Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments:

; ;

等等 美國

MAR I O 1900

REPORT OF SEDIMENT ANALYSES

	•	~				
Division of Water Quality Control		Tennessee Department of Public Health				
			Mile LEGAL			
SOURCE: Hooker Rd. Br	idae Du	mP	Mile Mile			
IDENTIFICATION: # 33590	Ha	miton Co	ountu			
!	7		\mathcal{J}			
			*.			
Field Number 4 College I Po	APA Di	Cartina Namahan	Data Callanta 4 2/2			
Field Number 4 Collected By	Trp Primary	Station Number_	Date Collected 272.			
Time Collected 11:45 Samp	le Denth (ft) A	5 inchael abor	atory Number SwM 18			
Jame Confected 17: 70 Samp	ie Deptii (11.7 <u>0</u>	O THE WS CADOL	atory Number			
All Results Reported on Dry Weight	Basis					
·	540.5	· · · ·				
	Conc.	STORET No.				
Aluminum as Al Mg/Kg		01108				
Arsenic as As Mg/Kg		01003				
Barium as Ba Mg/Kg	107	80010				
Boron as B Mg/Kg	1 %	01023				
Cadmium as Cd Mg/Kg	1.5	01028				
Chromium-total as Cr Mg/Kg	80	··· 01029				
Cobalt as Co Mg/Kg		01038				
Copper as Cu Mg/Kg	78 -	01043	an magnitude of the second			
Iron as Fe Mg/Kg		01170	Autority of weather the Property			
Lead as Pb Mg/Kg	101	01052				
Manganese as Mn Mg/Kg		01053				
Mercury-total as Hg Mg/Kg	0.104	71921 01068				
Nickel as Ni Mg/Kg Selenium as Se Mg/Kg	1167	01148				
Silver as Ag Mg/Kg	0.7	01078				
Zinc as Zn Mg/Kg	177	01078				
Zinc as Zn Mg/Kg 5-day B.O.D. 20°C Mg/Kg		- 01075				
C.O.D. Mg/Kg						
Oxygen uptake Mg/Kg						
Chlorine Demand, 30 min. Mg/Kg						
Cyanide as CN Mg/Kg						
Nitrates as N Mg/Kg						
Ammonia as N Mg/Kg						
Kjeldahl Nitrogen as N Mg/Kg						
Phosphate as P Mg/Kg						
Phenois Mg/Kg		<u> </u>				
Oil and Grease Mg/Kg						
Sulfide as S Mg/Kg	<u> </u>					
Solids, per cent						
Volatile Solids, per cent Silica as SiO ₂ Mg/Kg						

Craig Chuands 3/16

REMARKS

PH-0548 WQC 12/79

記念のできる。 の記録のこの表現のできる。

Field Log No. 5	Sampling	Agency 5 $ extit{WM} / $	FSF	
Laboratory		,		
Sample No. Ø 1270	Date Collected	2-25-88	Date Received: _	2-29-88
Sampled Collected By:	APD		Date Completed	3-21-88
Sample Source & Identificat	ion: Hosker	Rd. be	idge dung	<i>p</i>
		33590	8	
analyzed	3-3-88	,	Sede	ment
A M. SAMPLE FROM A USING ULTRA HIGH PURIT G.C. AND ANALYZED CHLORINE MODE. COLUMN: STARTING TEMI INITIAL HOLD: PROGRAM RATI FINAL TEMP: EINAL HOLD:	TY HELIUM. THE TUSING A HALL 70 1% SP-100 P: 45°C 4 MIN.	RED VOA BOTT TRAP IS THEN I DOA ELECTROC DO/CARBOPACK	LE IS PURGED ON DESORBED TO A CONDUCTIVITY D	TRACOR 560 or
COMPOUND	RESULTS (ppb)	CON	MPOUND	(RESULTS (ppb)
Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethylene 1,1-Dichloroethane Trans-1,2-Dichloroethylene Chloroform 1,2-Dichloroethane	N D	Trichloro Dibromoc 1,1,2-Tric Trans-1,3 2-Chloroe Bromofor 1,1,2,2- Tetrachlo Chlorober 1,3-Dich 1,2-Dich	chloromethane chloroethane chloroethane chloropropene ethylvinyl ether m Tetrachloroethane proethylene nzene lorobenzene lorobenzene lorobenzene	ND 0.0699 ND
I,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane I,2-Dichloropropane		Cisv-1, 2-1	Ochlorocidylene	
I,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane I,2-Dichloropropane	one Detected	Cisv-1, 2-1	Ochloweidylene	
I,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane I,2-Dichloropropane	one Detected	Cisv-1, 2-1	Ochloweidylene	

Field Log No Sampling Agen	cy Swm /FSF
Laboratory Sample No. Ø 1270 Date Collected 2-2	75-88 Date Received: 2-29-88
Sampled Collected By: APD	Date Completed 3-21-88
Sample Source & Identification: Hooken Rd	bridge dump
Site # 33	•
analyzed 3-1-88	Sediment
AROMATIC VOLATILE	ORGANIC ANALYSIS
A ME. SAMPLE FROM A SPECIALLY PREPARED USING ULTRA HIGH PURITY HELIUM. THE TRA AND ANALYZED USING A FLAMEIONIZATION DET COLUMN: 5% SP-1200/0. STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb)	ECTOR.
Benzene Toluene	1,4-Dichlorobenzene 1,3-Dichlorobenzene
Chlorobenzene	1,2-Dichlorobenzene
Ethyl Benzene	Acetone ND
p-Xylene	MIBK
o-Xylene	MEK WIK
Styrene	
Remarks: ND - None Detected	

50,01	
SWM	

TDPH-V B-288 Rev. 4

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 5			
Laboratory Sample No. 6 1270MS	Date Received: 2-29	-88_Date Completed:	3-21-88
Sample Collected By:	APD	Date Collected:_,	7-25-88
Sample Source & Identifica	tion: Hooker Rd.	Bridge Dump	Site.
Site # 3			
		FSF	
			·
Analytical Procedures and	Treatment of Sample:		
The sediment and a	Omls YOA-pure HaD	were added to a &	Oml vial,
shaken well and the		the state of the second of the second of	
with He T @ 40mg/m		<i>D</i>	
ly injection onto a	•		
F GC-MS. The	•	٠ ٠	_
from 30° -220°			
elwar de mis de la se			
Comp	ound Requested		
Compound	Compound	Compound	
1. Trichloroethy lone-C	8.	15.	
3.	9. 10.	16. 17.	
4. 5.	11.	18. 19.	
6. 7.	13. 14.	20. 21.	
Remarks: C - contiving	1ed		
Remarks: C-confirm	1ed	`	
Remarks: C-confirm	1ed	· · · · · · · · · · · · · · · · · · ·	
Remarks: C-confirm	1ed		
Remarks: <u>C-confirm</u>	1ed		

sample Source Hoofer To Bridge		SEE DEPARTMENT OF HEALTH AND EN ENVIRONMENTAL LABORATORIES					
treem Mile Donth Cou	inta Marillon	ORGANIC ANALYSIS Base/Neutral Extractables SampleType Particle Sediment; Data Routine; Data Continuity Conti	Ø ∖Si	mpling	Agency	DAPC; BSWM; DWM; Dother	·
one Man No Gradrant	ant y <u>remain and</u>	SampleType		If SWI	M: □SW;	☐SS;	
ollected: Date 2:25- 88 Time 119	45 By A	PD Emergency: Plegal: Routine: A	mbient	riv Will	: UGW;	DWP; DWS; Dother	
ield No. 6 Potential Hazard		O Air: O Sediment: O Tissue: O Wa	ter	Sena i	Report to		
Code 1 Method 605	Naluo*6	Code Method 608, cont.	Value I		Code	Method 610, cont.	AufaVI
Code Method 605	NA	34366lendrin aldehyde	PI		The second second	lindeno(1,2,3-cd)pyrene	Sulfayl
34631 3.3'-dichlorobenzidine	NA.	39410 heptachlor	ND			Inaphthalene	
9403 FT 3.3 -dicition openzionie		39420 heptachlor epoxide	100			phenanthrene	NA *
Method 606	1 6	39400 toxaphene		١		lbaceue	
and the second of the second o		PCB-1016 /1242	 	,	24407	IDAL elle	PI <3:0
34292 butylbenzylphthalate	- ND	39488 PCB-1221				Mathod 611	1
39100 bis(2-ethylhexyl)phthala		39492 PCB-1232			34553	Method 611 bis(2-chloroethyl) ether	
39110 di-n-butylphthalate		39500 PCB-1248	 		34278	bis(2-chloroethoxy)methar	
34596 di-n-octylphthalate	- - 	39504PCB-1254				bis(2-chloroisopropyl)ethe	
34336 diethylphthalate		39508 PCB-1260	 	٠.		4-bromophenylphenyl ethe	
34341 dimethylphthalate		81649PCB-1262		٠		4-chlorophenylphenyl ethe	
Method 607					24041	4-Cittol ophenytphenyt ethe	<u> </u>
first man in a contract the state of the sta		39480 methyoxychlor	IV			Method 612	1
34438 n-nitrosodimethylamine	12	I Method 609		1	3/386	hexachlorocyclopentadiene	MD
34433 n-nitrosodiphenylamine		34408 isophorone				hexachlor obutadiene	17
34428 n-nitroso di-n-propylami		34447 nitrobenzene	HD.			hexaction oppranere	
Method 608		346112,4-dinitrotoluene	1-1			2-chloronaphthalene	-+-}-
erangan paganak da kabangan paganak ang ang kabangan ang kabangan kabangan ang kabangan kabangan kabangan kaba		34626 2.6-dinitrotoluene	1-1/-			1 .2-dichlorobenzene	
39330 aldrin	ND	3402012.0-UIIIII OKUIYEIIE	.l¥l			11,3-dichlorobenzene	
39337a-BHC		Method 610	$\mathbf{r} : \hat{\mathcal{T}} : \hat{\mathcal{T}} = \hat{\mathcal{T}}$			1.4-dichlorobenzene	
39338 b - BHC		the same and a second of the same of the s				hexachior openzene	
34259 d-BHC		34205 acenaphthene	HP			11.2.4-trichlorobenzene	+
39340 g-BHC		34200 acenanaphthylene	 		<u> </u>	11.2.4-(1 ICHIDI Operizerie	<u> </u>
39350 chlordane		34220 anthracene	4		•	1 Othor	1
38310 4,4'-DDD	- 	34526 benzo(a)anthracene	PT <330			Other	
39320 4.4'-DDE	3.6	34247 benzo(a)pyrene	PI<330		•	Charse	PI < 330
39300 4.4'-DDT	PI	34230 benzo(b)fluoranthene	120			 	
39380 dieldrin	32.4	34521 benzo(ghi)perylene			:		
34361 endosulfan I	ND	34242 benzo(k)fluoranthene	+		. ———	_	
34242 endosulfari II		34556 dibenzo(a,h)anthracene	1 N		· 		
34351 endosulfan sulfate		34376 fluoranthene	ND		· ———	 	
39390lendrin	PI	34381 fluorene	ND	i	. ·	<u> </u>	

except as qualified below:

mg/kg; air, μg

NA - NOT ANALYPEN DUE TO INTERFERENCE

approved procedures, where available, and in compliance with current quality assurance criteria

•	menutecer	DEBARTHEUT AT UTAL	THE AND ENGIN	S. B.S.	Laboratory Number SWM1207	A. 1:3
emple Source Hocker Rd Bridge	FUNE 2 SEC	FRVIRONMENTALLARO	IN AND CHYIK DATODIFS	ORMERI	December: Date 52-34-95 time 673	OC BY LLR
tream MileDepthCounty	Hamilton	Purgeables and Acid Ex	tractables	Sampling	Agency: DAPC; DSWM; DWM; DC	Other
opo Map No. Quadrant Quadrant Ollected: Date <u>02-95-95</u> Time <u>114-5</u>		Sample Priori	ty	14 If SWM	1: DSW; DSS; D3012; DOther	
ollected: Date 02-35-35 Time 114-5	By API	🛘 Emergency; 🏿 Legal; 🗘 Ro	utine; 🛘 Ambient	ै।rwm:	OGW; OWP; OWS; Oother	
ield Nois Potential Hazard		☐ Air ☐ Sediment; ☐ Tis	sue; 🛮 Water 🧠	🔆 Send R	Report to	
			i.			
Code Halogenated Purgeables 178	alue* Cα	16	Value	francor and state	Acid Extractables	Yalue
32104 bromoform	344	75 tetrachloroethene			4-chloro-3-methyl phenol	ND
32101 bromodich loromethane	345	06 1 .1 .1 -trichloroethane		<u>34586</u>	2-chlorophenol	
34413 bromomethane		11 1.1.2-trichloroethane	2		2.4-dichlorophenol	
32102 carbon tetrachlorida		80 trich lorœthene		<u>34606</u>	2.4-dimethylphenol	
34301 chlorobenzene	394	88 trich lorof luoromethan	e .	24616	2.4-dinitrophenol	
34311 chloroethane	<u> </u>	15 vinylchloride		<u>34657</u>	2-methyl-4.6-dinitrophenol	
34576 2-chloroethylvinyl ether	<u>.</u>			<u>34591</u>	2-nitrophenol	
32106 chloroform	- Provide	Aromatic Purceables		34646	4-nitrophenol	
34418 chloromethane	340	30 benzene		39032	pentachlorophenol	
32105 dibromoch loromethane	343	Q1 chlorobenzene			phenol	
34536 1.2-dichlorobenzene	<u>345</u>	36 1,2-dichlorobenzene		34681	2.4.6-trichlorophenol	
34566 1.3-dichlorobenzene	345	66 1.3-dichlorobenzene				
34571 1.4-dichlor obenzene	345	71 1.4-dichlorobenzene		Out the same	Other	
34668 dichlorodifluoromethane	343	71 ethylbenzene				
34496 1.1-dichloroethane	340	10 toluene				
34531 1.2-dichloroethane		m-xylene '				
345011.1-dichloroethene		o-xylene_		·		
34546 trans-1.2-dichlorœthene		p-xylene	9			
34541 1.2-dichloropropane				- 2 <u></u>		
34045 cis-1.3-dichloropropene		Other Purosables		4 - 0		
34699 trans-1.3-dichloropropene	342	10 ecrolein				
34423 methylene chloride	342	15 acrylonitrile		y :		
345161.1.2.2-tetrachlorcethane		311		· · · · · · · · · · · · · · · · · · ·		
	— -			e.,		

Unit Supervisor: Rubin Herry Date: 3-30 & Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments:

^{*:} Unless otherwise indicated, reporting units are:
air=total µg
soil=µg/Kg
tissue=mg/Kg
water=µg/L

SUPERFUND
REPORT

REPORT OF SEDIMENT ANALYSES

MAR 1 6 1988

source: Hooker Rd. I	Bridge Du	mp	Mile	LEGAL
IDENTIFICATION: # 3359			_J,	
IDENTIFICATION: # 330]	U Ham	ton Covi	nry_	
		<u> </u>		•
Field Number 7 Collected B	y <u>APD</u> Primary S	tation Number_	Date	Collected 2/2
Time Collected //:50 Sam	ple Depth (ft.)	Labora	tory Num	ber <u>SWM 12</u>
All Results Reported on Dry Weight	t Basis		•	
			. :	
•• * · · · · · · · · · · · · · · · · · ·	Conc.	STORET No.		÷
Aluminum as Al Mg/Kg	<u> </u>	01108		· .
Arsenic as As Mg/Kg		01003		
Barium as Ba Mg/Kg	19.1	80010		
Boron as B Mg/Kg		01023		
Cadmium as Cd Mg/Kg	2.3			
Chromium-total as Cr Mg/Kg	9	01029	1144	and the day with the
Cobalt as Co Mg/Kg		- 01038	• • •	and the second second
Copper as Cu Mg/Kg	23	01043	· · ·	1
Iron as Fe Mg/Kg		01170		27
Lead as Pb Mg/Kg	15	01052		1. to a 14.2 -
Manganese as Mn Mg/Kg		01053		
Mercury-total as Hg Mg/Kg	40.100	71921	·	
Nickel as Ni Mg/Kg	CEE -118 13720	0001068 -	· · · ·	
Selenium as Se Mg/Kg	1.6	01148		
Silver as Ag Mg/Kg	0.4	01078	·	· · · · · · · · · · · · · · · · · · ·
Zinc as Zn Mg/Kg	43.4	01093	<u> </u>	
5-day B.O.D. 20°C Mg/Kg			· · · · · · · · · · · · · · · · · · ·	<u> </u>
C.O.D. Mg/Kg			·	·····
Oxygen uptake Mg/Kg				
Chlorine Demand, 30 min. Mg/Kg				
Cyanide as CN Mg/Kg				
Nitrates as N Mg/Kg				<u></u>
Ammonia as N Mg/Kg				
Kjeldahl Nitrogen as N Mg/Kg				
Phosphate as P Mg/Kg				
Phenols Mg/Kg				
Oil and Grease Mg/Kg				
Sulfide as S Mg/Kg				
Solids, per cent		+		
Volatile Solids, per cent				
Silica as SiO ₂ Mg/Kg				
			• .	
MARKS				

Craig Educards 3/16

PH-0548 WQC 12/79

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Field Log No. 8 Sampli	ing Agency SWM / FSF
Laboratory Sample No. Ø <u>1272</u> Date Collect	ed <u>2-25-88</u> Date Received: <u>2-29-88</u>
Sampled Collected By:	Date Completed 3-8-88
Sample Source & Identification: Hook	en Rd. bridge durup
5ite 7	± 33590
analyzed 3-4-88	Sediment
HALOGENATED NO.15724 A ML. SAMPLE FROM A SPECIALLY PREUSING ULTRA HIGH PURITY HELIUM. THE G.C. AND ANALYZED USING A HALL CHLORINE MODE.	COLATILE ORGANIC ANALYSIS EPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP IE TRAP IS THEN DESORBED TO A TRACOR 560 or 570 700A ELECTROCONDUCTIVITY DETECTOR IN THE -1000/CARBOPACK B R MIN. Cis-1,3-Dichloropropene Trichloroethylene Dibromochloromethane 1,1,2-Trichloroethane Trans-1,3-Dichloropropene 2-Chloroethylinyl ether Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethylene Chlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene

Laboratory Sample No. 9 1272 Date Collected 235-88 Sampled Collected By: APD Date Completed 3-8-88 Sample Source & Identification: Hookus Rd. Bridge. Dump Lit. ## 335-90 AROMATIC VOLATILE ORGANIC ANALYSIS APM. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAILUSING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb) Benzene A)D 1,4-Dichlorobenzene Delay D	Field Log No.	Sampling Ag	ency <u>SWM/FSF</u>	
Sample Source & Identification: Hooker Rd. Bridge Duny Lit # 33590 AROMATIC VOLATILE ORGANIC ANALYSIS A MK. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAI USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb)) Benzene Chlorobenzene Chlorobenzene Ethyl Benzene MD 1,4-Dichlorobenzene Lylene MD 1,2-Dichlorobenzene Ethyl Benzene MS O-Xylene O-Xylene Styrene Remarks:	Laboratory Sample No. Ø <u>127</u>	Date Collected	7-25-88 APD Date Received:	2-29-88
AROMATIC VOLATILE ORGANIC ANALYSIS AROMATIC VOLATILE ORGANIC ANALYSIS A = Mr. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAIUSING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb)) Benzene Toluene Chlorobenzene Ethyl Benzene p-Xylene o-Xylene O-Xylene Styrene Remarks:	•	· 		
AROMATIC VOLATILE ORGANIC ANALYSIS AROMATIC VOLATILE ORGANIC ANALYSIS A = Mr. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAIUSING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb)) Benzene Toluene Chlorobenzene Ethyl Benzene p-Xylene o-Xylene O-Xylene Styrene Remarks:	Sample Source & Iden	tification: Hooker	Rd. Bridge Du	mp
AROMATIC VOLATILE ORGANIC ANALYSIS ### AMAL SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAI USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb)) Benzene		Site # 335	90	
AROMATIC VOLATILE ORGANIC ANALYSIS ### AMAL SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAIUSING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR. ### COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C			gate the same of the same of the same	
AROMATIC VOLATILE ORGANIC ANALYSIS ### AMAL SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAIUSING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR. ### COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C	anale	mid 3-4-88	Sea Sea	liment
A ML. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAI USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C AND ANALYZED USING A FLAMEIONIZATION DETECTOR. COLUMN: 5% SP-1200/0.75% Bentone STARTING TEMP: 50°C INITIAL HOLD: 4 MIN. PROGRAM RATE: 6° PER MIN. FINAL TEMP: 110°C FINAL HOLD: 20 MIN. COMPOUND RESULTS (ppb) COMPOUND (RESULTS (ppb) Benzene 1,4-Dichlorobenzene Chlorobenzene 1,3-Dichlorobenzene Ethyl Benzene p-Xylene m-Xylene o-Xylene Styrene Remarks:	1011120	AROMATIC VOLATIL	E ORGANIĆ ANALYSIS	
Toluene Chlorobenzene Chlorobenzene Ethyl Benzene p-Xylene m-Xylene o-Xylene Styrene Remarks:	USING ULTRA HIGH AND ANALYZED USII COLUMN: STARTING INITIAL HO PROGRAM FINAL TEM	PURITY HELIUM. THE TING A FLAMEIONIZATION D 5% SP-1200 TEMP: 50°C OLD: 4 MIN. RATE: 6° PER MIN MP: 110°C LD: 20 MIN.	RAP IS THEN DESORBED TO ETECTOR. /0.75% Bentone	A TRACOR 560 G.C
	Toluene Chlorobenzene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ND	1,3-Dichlorobenzene	ND V
	Remarks:			
				·····

	SWM
ORGANIC LABORATORY ANALYSIS REPORT	3 00/1
Field Log. No.	
Laboratory Sample No. 18 1272 MS Date Received: 2-29-88 Date Complete	ed: 3-8-88
Sample Collected By: APD Date Collected	: 2-25-88
Sample Source & Identification: Hooter Rd. Bridge Damp	Site
# 335 90	·
FSF	
Analytical Procedures and Treatment of Sample:	
The sediment and 20 mls vo1-pure H20 were added to a	60 len
整数的 医视性性 人名英格兰 化二氯化二氯化二氯化二氯化甲基基甲基二氯化二氯甲基二氯化二氯 医二甲基二氯化氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯化二氯	
shaken well and then punged on a Tekmar Liquid Same	
with He T @ 40 ml/nin for 15 min The Temak trap was de	nouped @ 190°
byinjection onto a 10% SP-1000/CP-B column of a Fin	rigan 3200
F GC-MS. The own temperature was then pri	ogrammed
from 30° - 220° C @ 10° per minute.	
Compound Requested	
Compound Compound	
1. Trichloro ethy lene- c 8. 15. 2. ** 9. 16. 3. 10. 17. 4. 11. 18. 5. 12. 19. 6. 13. 20. 7. 14. 21.	
Remarks: C-confirmed	· · · · · · · · · · · · · · · · · · ·
K- No acetone or methyl ethyl Ketone detecte	d in

を関する。 のでは、 は関連の機能が、 は他のできない。 を表現している。 は他のできない。 は他のでもない。 は他のでもな。 は他のでもな。 は他のでもない。 は他のでもない。 は他のでもない。 は他のでもない。 は他のでもない。 は他の

The state of the s	ray N. William B. C. (Whate)	· · · · · · · · · · · · · · · · · · ·	Marie esta Perenta	Seathbrach	e in d a z e Ci	TOTAL CONTRACT OF THE CONTRACT OF THE	
a Service de la Companya del Companya de la Companya del Companya de la Companya	TENNESSE	E DEPARTMENT OF HEALTH AND EN	MODIN	INCNT :		ny Number SNM1208 à 12	27
ample Source Hooker Rd Bridge	Tie amua	- ENVIRONMENTAL LABORATORIES	of house	den au	eceived	: Date 3-79-58Time 9930 By	LL
一群 ろろりりり		ODEANIC ANALYSIS		51 111 -	A = 2'= - 1	. MARK DOLAL DUAL COL	
tream MileDepthCoun	ty HamilTon	Base/Neutral Extractables	To Bright	#If SW	l: □SW;	DSS: 03012; 00ther	
opo Map NoQuadrant	TIC - 407	SampleType		ी। WM:	ÜGW;	□WP; □WS; □Other	
ollected: Date 532-33-78 Time 163	BA V	Base/Neutral Extractables Sample Type Emergency: (1) Legal; (1) Routine; (1) A Air; (1) Sediment; (1) Tissue; (1) Wa	moient	् Send R	eport to	· · · · · · · · · · · · · · · · · · ·	
leid No Potential mazard		TO All 1 th Degittletic, In 11320e, In Ma	1661				Value
	Value *I	Code Method 608, cont. 34366 endrin aldehyde				Method 610, cont. indeno(1,2,3-cd)pyrene	IVOIUE
39120 benzidine 34631 3,3'-dichlorobenzidine	1/4	39410 heptach1or	170			naphthalene	1/4/2
5403 1 1 3.3 - GICITIOI OPERIZIONE	L	39420 heptachlor epoxide	 			phenanthrene	+
Method 606		39400 toxaphene				byceve	 -
34292 butylpenzylphthalate	ND	PCB-1016 /1242	 		27702	Ipy) ene	11/L
39100 bis(2-ethylhexyl)phthalate		39488 PCB-1221	 		· · .	Method 611	ı I
39110 di-n-butylphthalate		39492 PCB-1232	 		34273	bis(2-chloroethyl) ether	Q'N
34596 di-n-octylphthalate		39500 PCB-1248	 			bis(2-chloroethoxy)methane	
34336 diethylphthalate		39504 PCB-1254	1.			bis(2-chloroisopropyl)ether	
34341 dimethylphthalate		39508 PCB - 1260		1		4-bromophenylphenyl ether	
Y I Y I I WILL WATER TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE		81649 PCB-1262				4-chlorophenylphenyl ether	
Method 607		39480 methyoxychlor	V				
34438 n-nitrosodimethylamine	IND .					Method 612	
34433 n-nitrosodiphenylamine		I Method 609			34386	hexachlorocyclopentadiene	ND
34428 n-nitroso di-n-propylamine		34408 isophorone	M		<u>34391</u>	hexach lor obutadiene	
f		34447 nitrobenzene	1			hexachlorobenzene	
Method 608		346112.4-dinitrotoluene	ND			2-chloronaphthalene	WD
39330 aldrin	NB	34626 2.6-dinitrotoluene	1-4-			1.2-dichlorobenzene	11-1
39337 a-BHC		1				1.3-dichlorobenzene	44-1
39338 b-BHC		Method 610				1.4-dichlorobenzene	
34259 d-BHC		34205 acenaphthene	TYD			hexachloroethane	
39340 a-BHC		34200 acenanaphthylene		-	34551	1.2.4-trichlorobenzene	141
39350 chlordane	 - - 	34220 anthracene	 	-		LOthan	1 8
38310 4,4'-DDD	- X	34526 benzo(a)anthracene	 	-	-	Other	
39320 4,4'-DDE	PI*	34247 benzo(a)pyrene	 	-		Phrysene.	MD
39300 4,4'-DDT 39380 dieldr in	SI ND	34230 benzo(b)fluoranthene 34521 benzo(ghi)perylene	+ + +	-		<u> </u>	
34361 endosulfan I	1	34242 benzo(k) (luoranthene	+	-		 	+
34242 endosulfan II	100	34556 dibenzo(a.h)anthracene	1-1				1
34351 endosulfan sulfate	 	34376 filuoranthene	1 1			<u> </u>	1
39390 endrin		34381 fluorene	1.1/				
	¥ !	\mathcal{L}_{0}	11	- 		3-20 00	
st: Reporting units, unless otherwis		Unit Supervisor: Polom		rice		Date: 3-30-88	_
water, μg/L; sediment, μg/Kg; t		Signature of supervisor indicates that					
mg/kg;air,μg		approved procedures, where available	, and ir	i comb li	ance wi	th current quality assurance	criteria
DIT 0010	(except as qualified below:	1		1.1	\ -	
	′	comments PI - Prisence Indicated	40 101	n. 40 c	mouk	Ne .	

	· · · · · · · · · · · · · · · · · · ·	THE REPORT OF THE PROPERTY OF	440 s
	38 (1) (4)	William State Police Commence As	~ ~
mple Source Hooker Rd Bridge Du Site = 33590	RRESSEE DEPARTMENT OF HEALTH A CONTROLLED OF HEALTH A CREANIC ANALYSIS,	ND ERVIRORMENT Laboratory Number SWN 13-08 0 1 ORIES Received: Date 13-31-38 Time 1930 By	, LLR
ream Mile Depth County Har	Purposhles and Acid Extra	ctables Sampling Agency: DAPC; DSWM; DWM; Dother_	
nno Man No. Usuagrant	Sample Priority	to the swift HSW: HSS: HSQ12: HOther	
ollected: Date 17.00 By	y <u> たとと</u> ロ Emergency; のLegal; ロ Routine,	; D Ambient If WM: DGW; DWP; DWS; DOther	
ield No. Ci Potential Hazard		□Water Send Report to	
Code Halogenated Purgeables Yalue*	Code	Value	[Yalue]
32104 bromoform	34475 tetrachloroethene	34552 4-chiloro-3-methyliphenol	ND
32101 bromodich loromethane	34506 1.1.1-trichloroethane	34586 2-chlorophenol	
34413 bromomethane	345111,1,2-trichloroethane	346012.4-dichlorophenol	
32102 carbon tetrachloride	39180 trichloræthene	34606 2.4-dimethylphenol	
34301 chlorobenzene	39488 trich lorof luoromethane	246162.4-dinitrophenol	
34311 chlorcethane	39715 vinyl chloride	34657 2-methyl-4.6-dinitrophenol	
34576 2-chloroethylvinyl ether		345912-nitrophenol	
32106 chloroform	l Aromatic Purceables	34646 4-nitrophenol	
34418 chloromethane	34030 benzene	39032 pentachlorophenol	
32105 dibromoch loromethane	34301 chlorobenzene	34694 phenol	
34536 1,2-dichlorobenzene	34536 1,2-dichlorobenzene	346812.4.6-trichlorophenol	
34566 1,3-dichlorobenzene	34566 1,3-dichlorobenzene		
34571 1.4-dichlor obenzene	34571 1.4-dichlorobenzene	Other	
34668 dichlorodifluoromethane	34371 ethylbenzene		
34496 1.1-dichloroethane	34010 toluene	181	
34531 1.2-dichloroethane	m-xylene		_l
34501 1,1-dichlorcethene	o-xylene		
34546 trans-1,2-dichlorcethene	p-xylene		
34541 1.2-dichloropropane			
34045 cis-1.3-dichloropropene	Other Purosables		
34699 trans-1.3-dichloropropene	34210 acrolein		
34423 methylene chloride	34215 acrylonitrile		
345161.1.2.2-tetrachioroethane			

*: Unless otherwise indicated, reporting units are:
air=total μg
soil=μg/Kg
tissue=mg/Kg
water=μg/L

$\mathcal{O}_{\mathcal{O}} \mathcal{O}_{\mathcal{O}} \mathcal{O}_{\mathcal{O}}$	~~
Unit Supervisor Robin L. Henges Date: 3-30 8	IX.
Signature of supervisor indicates that work was performed in accordan	nœ
with federally approved procedures, where available, and in complianc	e
with current quality assurance criteria except as qualified below:	
Comments:	

Division of Water Quality Control

Tennessee Department of Public Health

source: Hooker Rd.	Bridge	Dump	Mile	LEGAL
IDENTIFICATION: # 335°				
ibbitti formotti ji 200	7.70	XIIIII I	Court	9
Field Number 10 Collected by A	PD Primary Stat	tion Number	Date (Collected 2/25/88
Time Collected 11:45 Samp				Number SW M120
All Results Reported on Wet Weight	Basis		• .	
efficiency sector	Conc.	STORET No.		
Aluminum as AL Mg/Kg	- Conc.	BIOREI IVO.		
Arsenic as As Mg/Kg		01004		
Barium as Ba Mg/Kg	79.4	01007		
Boron as B Mg/Kg				
Cadmium as Cd Mg/Kg	1.3	71940		
Chromium-total as Cr Mg/Kg	34	71939		
Cobalt as Co Mg/Kg				
Copper as Cu Mg/Kg	37	- 71937		
Iron as Fe Mg/Kg			F 9 7 8 44 1 7 2	The second secon
Lead as Pb Mg/Kg	76	71936		
Manganese as Mn Mg/Kg	· · · · · · · · ·	11770		
Mercury-total as Hg Mg/Kg	0.130	71930		
Nickel as Ni Mg/Kg	1118	01069		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Selenium as Se Mg/Kg	0.2	01149		
Silver as Ag Mg/Kg	0.6			
Zinc as Zn Mg/Kg	102	71938		
5-day B.O.D. 20°C Mg/Kg		-1'-1'-		
C.O.D. Mg/Kg				 :
Oxygen uptake Mg/Kg				
Chlorine Demand, 30 min. Mg/Kg				
Cyanide as CN Mg/Kg				
Nitrates as N Mg/Kg				
Ammonia as N Mg/Kg			 	
Kjeldahl Nitrogen as N Mg/Kg				
Phosphate as P Mg/Kg				
Phenois Mg/Kg				
Oil and Grease Mg/Kg				
Sulfide as S Mg/Kg	 			
Solids, per cent				·
Volatile Solids, per cent				
Silica as SiO ₂ Mg/Kg				
Jinea as Sto 2 MR/17R		_!		
		•		
EMARKS			•	•
LWITTENS				

Craig Educado 3/16

PH-1958 WAT 1/80

Field Log No	Sampling Age	ncy <u>SWM / FSF</u>	·
Laboratory Sample No. Ø <u>1274</u>	Date Collected 2-	/ -25-88 Date Received:	2-29-88
Sampled Collected By:	APD	Date Completed	1 3-17-88
	11- h D	1 1	•:
Sample Source & Identification:	HOORU TO	l. Vudge dun	P
	Set. # 33	3590	<u> </u>
analyzed 3-4-88		Si.	diment
		VE ODGANIO ANALYSIS	
10.3759gr HALC	OGENATED VOLATI	LE ORGANIC ANALYSIS	
A _ ML. SAMPLE FROM A SPE USING ULTRA HIGH PURITY I G.C. AND ANALYZED USIN CHLORINE MODE.	HELIUM. THE TRA		TRACOR 560 or 57
COLUMN:	194 SP 1000/C	CARBOPACK B	
STARTING TEMP:	45°C	CARBOFACK B	
INITIAL HOLD:	4 MIN.		and the state of t
PROGRAM RATE:	8º PER MIN.		
FINAL TEMP:	200°C		and the termination of the second second and a com-
FINAL HOLD:	18 MIN.		
COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane	NP	Cis-1,3-Dichloropropene	NP
Bromomethane		Trichloroethylene	0.1150
Dichlorodifluoromethane	,	Dibromochloromethane	NP
Vinyl Chloride		1,1,2-Trichloroethane	1
Chloroethane		Trans-1,3-Dichloropropene	
Methylene Chloride		2-Chloroethylvinyl ether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethylene		1,1,2,2-Tetrachloroethan	ie
1,1-Dichloroethane		Tetrachloroethylene	· · · · · · · · · · · · · · · · · · ·
Trans-1,2-Dichloroethylene		Chlorobenzene	
Chloroforin	· `	1,3-Dichlorobenzene	
1,2-Dichloroethane		1,2-Dichlorobenzene	
1,1,1-Trichloroethane		1,4-Dichlorobenzene	
Carbon Tetrachloride		trans+cis-1,2-Dicklowethefin	<i></i>
Broinodichloromethane 1,2-Dichloropropane			
	Detected		
			
			· · · · · · · · · · · · · · · · · · ·

の対象を

Field Log No. //	Sampling Agency <u>50</u>	UM/FSF	
Laboratory Sample No. Ø <u>1고 7</u> Date (Collected 2-25-88	Date Received:	<u> </u>
Sampled Collected By: APD)	Date Completed _	3-11-88eBA
Sample Source & Identification:	Hooke Rd Brida	ye Dump	
	Site # 3359	<i>O</i>	
analyzed 3	- 2 <i>-</i> 88	Sedin	. A
AROMAT	TIC VOLATILE ORGANI	C ANALYSIS	
A ML. SAMPLE FROM A SPECIALI USING ULTRA HIGH PURITY HELIU AND ANALYZED USING A FLAMEION	JM. THE TRAP IS THI	TTLE IS PURGED ON EN DESORBED TO A	TO A TENAX TRA TRACOR 560 G.C
COLUMN: STARTING TEMP: INITIAL HOLD: PROGRAM RATE: FINAL TEMP: FINAL HOLD:	5% SP-1200/0.75% Ben 50°C 4 MIN. 6° PER MIN. 110°C 20 MIN.	tone	
COMPOUND RESUL	TS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene Toluene Chlorobenzene Ethyl Benzene p-Xylene m-Xylene o-Xylene Styrene	1,3-Di 1,2-Di Aee Mi	ichlorobenzene ichlorobenzene ichlorobenzene ietone IBK EK IIK	ND VD
Remarks:			

Field Log. No. //				•
Laboratory Sample No. 90 1274 MS_D	ate Received: <u>2-2</u> 0	7-88 Date Complet	ed: <u>3-17-88</u>	
Sample Collected By:	APD	Date Collecte	1:2-25-88	
Sample Source & Identification	on: Hooker Bd	l. Bridge Dump	S.¥e	
Site # 33590				
		FSF		
				:
Analytical Procedures and Tr The sediment and 20	— — — — — — — — — — — — — — — — — — —	O were added to a	60 ml rial,	
shaken well and then			aran da kalendar ya mwaka mwaka wa 1994 ili a 1994 ili a	· · · · · · · · · · · · · · · · · · ·
with He T @ 40mb/min		V		
by injection onto a 1	the state of the particle of the		かよど かずしがしをげしん	
F GC-MS. The or				
from 30° -220°	<u> </u>			
				•
Compo	und Requested			
Compound	Compound	Compound		
1.Trichloroethylene-C 2.	8. 9.	15. 16.		
₹. 4.	10.	17. 18.	.*	•
5. 6. 7.	12. 13. 14.	19. 20. 21.		
Remarks: <u>C-confirme</u>	d			
·	·			
	·		· · · · · · · · · · · · · · · · · · ·	
ı.				
				D(
			B-2	PH-1 288
			Rev	٧. د

14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TENNESSE	E DEPARTMENT OF HEALTH AND EN	VIRONH	ENT I	aborato	ry Number 5HM 1209 127	5
ismple Source Hoole Rd Beidge Di	1444	_ FNVIRONOFNIAL LAKORATORIFS:	ration and the		Dacaiuad	In Data District Missing No. 100 Bu	l- i-1×
Stz #33590	•	- ORGANIC ANALYSIS	Sa	mpling	Agency	: DAPC; DSWM; DWM; DOther_	
tream MileCoun	Ly Hanton	 Base/Neutral Extractables 		If SW	1: DSW	; DSS; D3012; D0ther	
opo Map NoQuadrant	5 005	ORGANIC ANALYSIS Base/Neutral Extractables SampleType Demography (Maga) Deputing Demography	生物	If WM:	⇒ □GW;	DWP; DWS; DOther	
ollected: D8te 3-42-1 lille 1414		Lines delicy, the Legal, the Routine, the All	יי אווסוטוו	Send F	leport to)	
ield No/2 Potential Hazard		10				is a season	1
Code Method 605	Yalue*i	Code Method 608, cont.	Value .	1		to be a figure of the contract	Value
39120 benzidine	NA.	34366 endrin aldehyde	ND			indeno(1,2,3-cd)pyrene	ND
34631 3.3'-dichlorobenzidine	NA	39410 heptachlor		j., . j		naphthalene	1 1 1
i i i i i i i i i i i i i i i i i i i		39420 heptachlor epoxide		;		phenanthrene	
Method 606		39400 toxaphene			34469	pyrene	
34292 butylbenzylphthalate	ND	PCB-1016 / 1242					_
39100 bis(2-ethy)hexy))phthalate		39488 PCB-1221				Method 611	
39110di-n-butylphthalate		39492 PCB-1232				bis(2-chloroethyl) ether	
34596 di-n-octy)phthalate		39500 PCB-1248		·		bis(2-chloroethoxy)methane	
34336 diethylphthalate		39504 PCB-1254		÷ .,		bis(2-chloroisopropyl)ether	-1
34341 dimethylphthalate		39508 PCB-1260				4-bromophenylphenyl ether	
		81649 PCB-1262		*	<u>34641</u>	4-chlorophenylphenyl ether	1
ı Method 607		39480 methyoxychlor	. V		4.	•	
34438 n-nitrosodimethylamine	DN					Method 612	
34433 n-nitrosodiphenylamine		I Method 609			34386	hexachlorocyclopentadiene	NO
34428 n-nitroso di-n-propylamine		34408 isophorone	ND		34391	hexachlorobutadiene	
		34447 nitrobenzene	V			hexachlorobenzene	
Method 608		346112.4-dinitrotoluene	ND		34581	2-chloronaphthalene	W))
39330laidrin	DIF	34626 2.6-dinitrotoluene	ND		34536	1.2-dichlorobenzene	UN
39337 a-BHC				3.00		1.3-dichlorobenzene	
39338b-BHC		Method 610	3 4 5 5		34571	1.4-dichlorobenzene	
34259 d-BHC		34205 lacenaphthene	NV		<u>34396</u>	hexachloroethane	
39340la-BHC		34200 acenanaphthylene	100		34551	11.2.4-trichlorobenzene	
39350 chlordane		34220 anthracene			t Service		. '
38310 4,4'-DDD	19	34526 benzo(a)anthracene		3		Other	
39320 4,4'-DDE	5.23	34247 benzo(a)pyrene				Chrysene.	M
39300 4,4'-DDT	P=	34230 benzo(b)fluoranthene				J	
39380 die drin	13.10	34521 benzo(ghi)perylene				<u> </u>	
34361 endosulfan I	MD	34242 benzo(k)fluoranthene		1	·		
34242 endosulfan II		34556 dibenzo(a.h)anthracene	1111				
34351 lendosulfan sulfate		34376 fluoranthene	1.7	-14	! 		
39390 endrin		34381 fluorene	W.	4/5			
			PU	0	3,)	Date: 3-30-88	
Reporting units, unless otherwis		· · · · · · · · · · · · · · · · · · ·		Crie	/-)		_
water, μg/L; sediment, μg/Kg; t	issue, S	Signature of supervisor indicates that t	the work	(พธรา	pertorn	ned in accordance with federall	ly
mg/kg; air, μg		approved procedures, where available,					criteria
	E	except as qualified below:	新潮中特別				•

	TENNEGGES NO	IA TUT IA DE DE ALTUM	NO SHILL	NINCUT	Laboratory Number SWM 1209	A 1 7.
sample source Hooker Rd Brid	ISG DAWD EN	PARTHENT OF REALTH AN STACORAL LATHEMANUSIVE	ND ERVIK	DIGITER	Received: Date 03 73 STime 0930	BULLE
SITE # 33590		ORGANIC ANALYSIS.			Pursing Carlo	
Stream MileDepthCounty	Higmilton Pu	rgeables and Acid Extrac	tables	Sampling	Agency: DAPC; DSWM; DWM; DOL	her
opo Map No. Quadrant Collected: Date 02-35-93 Time 12-15		Sample Priority	Prince Control	if SW	1: DSW; DSS; D3012; DOther	
Collected: Nate 02-35-93 Time 12-15	By A MD D En	nergency; D'Legal; D Routine;	☐ Ambient	If WM:	DGW; DWP; DWS; DOther	
ield No. 12 Potential Hazard		□ Air 🏿 Sediment; 🗖 ∏issue; 🛭]Water	्रि Send R	Report to	
		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		A A SA		
						•
	_					
	alue* Code		Value:		Acid Extractables	Value
32104bromoform	34475	tetrachloroethene		34552	4-chloro-3-methyl phenol	ИĎ
32101 bromodich loromethane	34506	1.1.1-trichloroethane		34586	2-chlorophenol	
34413 bromomethane	34511	1.1.2-trichlorcethane		34601	2.4-dichlorophenol	
32102 carbon tetrachloride	39180	trichloroethene		34606	2.4-dimethylphenol	
34301 chlorobenzene	39488	trichlorofluoromethane		24616	2,4-dinitrophenol	
34311 chlorcethane	39715	vinylchloride		34657	2-methyl-4.6-dinitrophenol	
34576 2-chloroethylvinyl ether				34591	2-nitrophenol	
32106 chloroform		Aromatic Purceables		34646	4-nitrophenol	
34418 chloromethane	34030	benzene		39032	pentachlorophenol	
32105 dibromoch loromethane	34301	chlorobenzene		34694	A phenol	
34536 1.2-dichlorobenzene	34536	1,2-dichlorobenzene		34681	2.4.6-trichlorophenol	-1
34566 1.3-dichlorobenzene	34566	1.3-dichlorobenzene			Programme Company	
34571 1.4-dichlor obenzene	34571	1.4-dichlorobenzene			Other	
34668 dichlorodifluoromethane	34371	ethylbenzene				
34496 1.1-dichlorcethane	34010	toluene		<u> </u>		
34531 1.2-dichloroethane		m-xylene		***		
34501 1.1-dichloroethene		o-xylene		11		
34546 trans-1.2-dichloroethene		p-xylene				
34541 1.2-dichloropropane						
34045 cis-1,3-dichloropropene		Other Purgeables		1		
34699 trans-1.3-dichloropropend	34210	acrolein		^ ·		
34423 methylene chloride	34215	<u>erylonitrile</u>		. <u> </u>	<u> </u>	
345161 1.2.2-tetrachloroethane		and the second s	$c = \frac{1}{c^2} \left(c + c \right)$	<u> </u>		
	•					

*: Unless otherwise indicated, reporting units are:
air=total µg
soil=µg/Kg
tissue=mg/Kg
water=µg/L

Unit Supervisor Goldin L. Heriges Date	3-31-88
Unit Supervisor: Twially 100000 Date	0000
Signature of supervisor indicates that work was performe	ed in accordance
with federally approved procedures, where available, and	in compliance
with current quality assurance criteria except as qualifie	d below:
Comments: 200 April 200 Ap	

Park Chies Chie Chief Bride Chief Carlo Ca

HOOKER ROAD BRIDGE DUMP TND980844229 Reference List

- 1. Trip Report, 29 Jan. 88
- 2. Trip Reports, 24-25 Feb. 88
- 3. SI Field Logbook with Photographs 24-25 Feb.88
- 4. Geological Assessment, R. Powell 13 April 88
- 5. Telecon Memo, F. Miller to B. Cooper, 14 January 88
- Chattanooga Creek Survey, TN Division of Water Management 1981-82
- Planning District Analysis #2, South Center City, Chattanooga-Hamilton County Regional Planning Committee.
- 8. Memo to the File, by A. Damiano, 29 December 87
- 9. Office Correspondence, Stannard to Miller, Subj: Information concerning wells in the Chattanooga area
- 10. Community Public Water Supplies in TN, April 1987
- 11. Uncontrolled Hazardous Waste Site Ranking System (HW-10), USEPA (1984)
- 12. Office Correspondence, Caruthers to Chattanooga Creek File, Subj: Trip Report-Water Use Survey in Walker County, GA; 28 Aug. 86
- 13. Letter, Hatcher (TWRA) to Caruthers (TDSF), 19 Dec. 85
- 14. Soil Survey of Hamilton County, TN
- 15. Memo, Stewart to WQC Files, 29 Sept. 78
- 16. Memo, Stewart to WQC Files, 29 June 76
- 17. Memo, Stewart and McCormick to Files, 25 June 76
- 18. TN-DSWM complaint, 13 June 86, G. Moose
- 19. Telecon, Miller to S. M. Warren, 8 December 87
- 20. Telecon, Miller to A. Goins, 16 February 88
- 21. Memo, Miller to Hooker Road, Bridge File, 1 March 88, Subj: PRP

Site No.TND 980844229

Ref. No

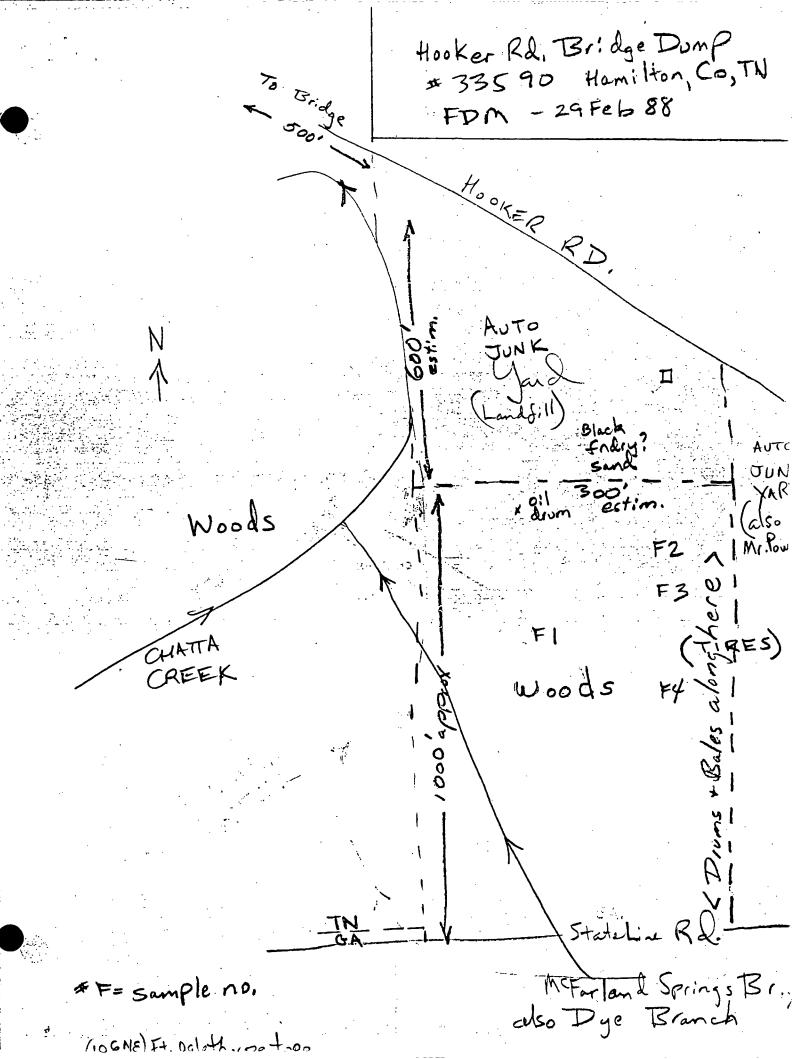
OWNER/FACILITY Hooker Road Bi	ridge Dump
TYPE FACILITY Roadside Dump	ACCT. #_ 33590
CCUNTY Hamilton	CITY Chattanooga DATE 29 Jan. 88
PURPOSE OF VISIT Site Invest	
	Cooper, Exec. Director of Chattanooga Housing
Authority, owner of the property	Alle Alle Alle Alle Alle Alle Alle Alle
OTHER DSWM PERSONNEL PRESENT	
WEATHER CONDITIONS 60°F, su	nny, no rain previous 48 hours.
HOTOS IAKAN	ES NO X ES X NO A memo was written summarizing the telecon
engales ekilelija ili e	
the feet of the second	It was decided in advance with W. Everett samples. It was also agreed that this site.
is the Southeast corner of the c	reek and the road, as described in the Prelim.
Assessment. However, the other	3 corners were to be viewed and notes taken.
Other than some roadside dumping	, no hazardous substances were seen. The site
is heavily treed with dense unde	rgrowth. The site is downslope a steep bank
from the road.	
The northeast corner is an open	field.
	•
	1 -

[] CHURCH ☐ HOUSE CHATTA. GLASS NRS 331050038 TOWN DUMP TND980844534 Lily Hall S: te (DSWM) Field NEW BRIDGE DITCH OLP BRIDGE Cedar HILL School STREET STREET VITTO HOUSING PROJECT JUNK 46 other YARD JUNK AUTO YARD CHATTA NOOFA CREEK

SITE SKETCH.
HOOKER RD, BRIDGE DUM
TND 980844229
CHATANOOGA, HAMILTON CI
I"=100 yds approx.

Site No. TND 980844229

Ref. No.____2



DIVISION OF SCLID WASTE MANAGEMENT - SUPERFUND SECTION SCUTHEAST Tennessee Divisions Trip Report

OWNER/FACILITY Hooker Road Bridge Dump
TYPE FACILITY Abandoned drums ACCT. # 33590
CCURTY Hamilton CITY Chattanooga DATE 24-Feb88
PURPOSE OF VISIT To pinpoint the site with Phil Stewart and determine
where the drums, bales, and other wastes were.
INDIVIDUALS CONTACTED Mr. Willie Powell - Owner
CTHER DSWM PERSONNEL PRESENT Tony Damiano
WEATHER CONDITIONS 45PF, sunny, rain the day before
SAMPLES COLLECTED YES NO X PHOTOS TAKEN YES X 2 frames NO
COMMENTS AND DISCUSSION: FDM scheduled this trip in advance and Mr.
Powell had been notified about our purpose.
The 3 TN-DH&E men arrived at 2:15 p.m. and we all met Mr. Powell. The fence
at the entrance on Hooker Road is still there, and the gate is open 6 days
a week, during the day when an attendant is on duty.
FDM talked with Mr. Powell and explored the yard where the junk cars are.
For the hour we were there, Tony and P. Stewart explored the wooded area
below the landfill and to the south. They reported finding many bales of
carpet backing/scraps and several drums, some disintegrated.
The drums had solid and semi-solid material in them. There were no labels
on the drums. Mr. Powell was told to leave the drums as they are and we
would return to sample.
Some black material, suspected to be foundry sand, was seen in the auto yard.
The yard had been filled in over the years: about 7 feet high at the south
Inspector's signifie

end and tapering down to the road. Chattanooga Creek flows along the west side of the auto yard.

See the Trip Report dated 25 Feb. 88 for the Site Sketch.

Site No. TND 9808 44229

Ref. No. 3

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

ite Name: Looks Ros	of Bridge Dump
lature of Material:	
Map:	Computer Disks:
Photos:	CD-ROM:
Blueprints:	Oversized Report:
Slides:	Log Book:
Other (describe):	notre
Amount of material:	

No . _ Ref.

TO:

The Hooker Road Bridge File #33590

FROM:

Anthony P. Damiano December 29, 1987

SUBJECT: File search to obtain more data and to confirm existing data on the Hooker Road Bridge Dump.

A reference to photographs taken during a site inspection was made in a letter from Jack McCormick to Wayne McCoy(Resorce Consultants) on June 24, 1976. The photographs can be found in the Division of Water Quality on the third floor in the SERO office. The photographs are in tray XVI, pictures 35 - 42. The photographs mainly show the synthetic fiber waste, but show no drums. The photographs also show some of the construction debris that was dumped on the site. Alider

A reference to samples taken during a site inspection was made in the same June 24, 1976 letter. No record of the samples could be found in the Division of Water Pollution's files. The type and quantity of waste alleged to have been dumped at the Hooker Road Bridge Dump is still for the most part unsubstantiated.

STATE PITTSBURG, TI

- 350-17-68-75020

TND 9808

Site No.

Ref No.

Hadden S

FROM

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

November 19, 1987

TO:

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Ferman Miller, Division of Superfund, Chattanooga

FROM: CJS Craig Stannard, Division of Ground Water Protection,

Chattanooga

SUBJECT:

Information Concerning Wells in the Chattanooga Area

	ТО	DATE

As per your request, wells in the Chattanooga area, south of the Tennessee River, east of Lookout Mtn., and west of Missionary Ridge are listed and described below:

- Uniform Rental Services Inc. has one or more wells at its plant on Tennessee Avenue. Specific details are not known.
- Velsicol Chemical Corporation has several monitoring wells at "Residue hill." che file for no sective
- Southern Wood Piedmont Company at 400 East 33rd Street has at least sixteen monitoring wells of shallow depth.
- Chattanooga Glass Company has a well at its plant facility at 401 West 45th Street. According to company officials it was drilled by Bacon Well Drilling Company in 1982 and it is approximately 325 feet deep. The well water, which is used for industrial purposes only, is reportedly of good quality and quantity.
- 5. Southern Cellulose Products Inc. has two wells located on 38th Street just east of Chattanooga Creek. According to company officials, the two wells were drilled in 1976 by Miller Drilling Company and are approximately 150 feet deep. Only one of the wells is currently in use. The other well is auxilliary. The water withdrawn is used for processing purposes only and the water quality and quantity are reportedly good.
- 6. Tennessee Truck Parts Company at 400 East Main St. has a well that is reportedly used for industrial purposes only. It is 145 feet deep and was completed in 1979.
- 7. Will-Wear Hosiery has a well located at or near its 2000 Stuart Street plant location. The well is reportedly 1,301 feet deep and is used for industrial processes only.
- Chattanooga State College at 4501 Amnicola Highway has a 512 foot deep well that is used to supply water to the campus water fountain.

FROM

DATE

- 9. Wheland Foundry at 2800 South Broad Street has a 61 foot deep well that is used for monitoring purposes.
- 10. Ledco Inc. at 3535 St. Elmo Avenue has a 250 foot deep well that provides water for the company's heat pump.
- 11. Gateway Hosiery Mills at 1220 East Main Street reportedly has a well that is used to provide processing water for its operations. The well is of unknown depth but is reportedly contaminated with perchloroethylene, benzene and a number of other organic chemicals at the ppm level. The well was reportedly drilled by Miller Drilling Company.
- 12. Alco Chemical Corporation at 909 Miller Avenue has a 600 foot deep well that provides water for industrial uses at the plant.
- 13. A well located at 1400 Citico Avenue, belonging to Robert Nabors, is reportedly 343 feet deep and was drilled earlier this year. It is not being used at this time.
- 14. A well has recently been completed for a car wash that is being built near the intersection of Wilcox Blvd. and Chamberlain Avenue. Its depth is not known but it was reportedly drilled by Miller Drilling Company.

The wells are listed 1-14 on the enclosed location map. Well log information concerning some of the wells is also enclosed.

CJS/tdm .

Enclosures

cc: Robert Powell, Division of Superfund, Nashville

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Site No. 7ND 9808 44229

Ref. No.

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Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States Environmental Protection Agency Site No. 7ND 9808 44229

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

August 29, 1986

TO:

· 大学の意識を表現します。まで、日本のでは、「日本のでは、」」」。

Chattanooga Creek File

FROM:

G. S. Caruthers

SUBJECT:

Trip Report

FROM	ТО	DATE
SIU	file	
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On August 28, 1986, I conducted a water use survey in the Rossville, Georgia area. The area involved consists of areas of Rossville and Walker County, Georgia which lie within a 3 mile radius of several sites in the Chattanooga Creek floodplain.

Conversation with Henderson Wellborn, superintendent of the Walker Co. Water and Sewerage Authority in Flintstone, Georgia, indicates that all areas of the county outside the cities are served by that utility. Mr. Wellborn stated that their lines now run all the way to the Tennessee state line west of Rossville and meet but do not interconnect with those of the city of Rossville. The small residential area near the state line outside the city limits of Rossville is served by WCWSA, according to Mr. Wellborn. He stated that all water distributed by WCWSA comes from Crawfish Springs Lake near Chickamauga, Georgia, about 7 miles south of Rossville and well outside the three-mile radius area. Mr. Wellborn said he knew of no private wells currently in use in the affected area.

Mr. Lee Britton, superintendent of the Rossville Public Works Department, was not available, but conversation with employees at the PWD maintenance lot confirmed that all areas were covered by either the Rossville or Walker County water systems. Rossville obtains its water from Tennessee-American Water Company in Chattanooga.

The trip was concluded with a brief reconnaissance of selected sites in the Chattanooga Creek area to ascertain conditions to be encountered in conducting site inspections which will probably be scheduled in FY 1987.

GSC/djk

FROM DATE
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Site No. 7ND 9808 44229

Ref. No. 73 5



TENNESSEE WILDLIFE RESOURCES AGENCY

P. O. BOX 40747
NASHVILLE, TENNESSEE 37204

December 19, 1985

Mr. Gordon Caruthers
Solid Waste Management Division
Department of Health & Environment
701 Broadway
Nashville, TN 37219

Dear Gordon:

In response to your call of December 19, I am happy to enclose descriptions of critical wildlife habitat of Tennessee, as designated by the U.S. Fish and Wildlife Service.

Please advise if I can be of further assistance.

Sincerely,

TENNESSEE WILDLIFE RESOURCES AGENCY

Robert M. Eatcher, Coordinator Nongame/Endangered Species

RME/ch enc.





ENDANGERED AND THREATENED

WILDLIFE AND PLANTS

JULY 20, 1984

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Department of the interior U.S. Fixn and Wildlife Service Site No. 7ND 9808 44229

Ref. No.

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soil survey of Hamilton County, Tennessee

United States Department of Agriculture Soil Conservation Service in cooperation with Tennessee Agricultural Experiment Station Site No. 7ND 9808 44229

Ref No

Ker . : No .

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE:

September 29, 1978

TO:

Water Quality Control Files

FROM:

Phil Stewart

SUBJECT:

Waste Materials Dump, Hooker Road,

Chattanooga, Hamilton County

JGM 10/2 LP 10/31 FROM TO DATE

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File,

Hamilton County DD

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County Dumps, Iw 1971

On September 13, 1978 Roy Warren told Jack McCormick about an alleged "chemical dump" on Hooker Road behind Bodine's Auto Parts in Chattanooga. Warren stated that the dump had burned about three weeks earlier and that the Chattanooga Fire Department had responded to the fire. Warren reported that there were barrels of waste chemicals on the site. On September 20, 1978 at Jack McCormick's request, I visited the dump site which is located south of Hooker Road on the banks of McFarland Springs Branch for the Bodine automobile scrap vard.

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(This dump site is the same that was visited by Jack McCormick and Phil Stewart on June 16, 1976 in the aftermath of the Dy-Therm Chemical warehouse fire that occurred on April 10, 1976 at 20th and Broad Streets, Chattanooga. Bunky Wright with the City of Chattanooga had located what appeared to be some of the fire debris which included unknown chemicals that had been dumped at the Hooker Road site. Since the chemicals handled by the Dy-Therm Chemical Company were similar to chemicals processed by the Lutex Chemical Company (also causing problems at that period of time), we were very interested in the dump and its contents. During our investigation it was noted that a large amount of baled synthetic fiber wastes had been dumped in the woods at the site and probably numbered in the hundreds. The bales were very large, measuring approximately 3' by 4' by 4 feet, but, other than being unsightly, they did not appear to be creating a water pollution hazard or potential. The dump site in general was being used by persons disposing of construction materials, miscellaneous industrial scrap, household debris and garbage. Other than two or three drums of chemicals from the Dy-Therm fire, no other drums were noted at the site at that time.)

10

FROM

DATE

On arriving at the site on September 20, 1978, I discovered that the access to the dump site had been sealed off by an eight foot high chain link fence and gate along Hooker Road. I determined from the people at Bodine's Auto Parts that the owner of the dump site property was a Mr. Willy Powell who operates an auto parts yard a block south on Hooker Road. Mr. Powell was visited at his business establishment and permission to enter the dump site was requested. Mr. Powell first was reluctant when he was told the nature of my visit, and he stated that he knew nothing of any drums of chemicals ever being stored on his property. However, he did

Office Memorandum September 29, 1978 Page Two

state that the bales of fiber wastes which were located there had burned earlier as the result of someone setting fire to the material.

Mr. Powell indicated that he had been trying to get the party originally responsible for dumping the bales to remove them from his property, but the fire seemed to have solved that problem. Mr. Powell finally gave me the key to the chain link fence gate, and told me to make a "full investigation" and report back to him if I found any chemicals dumped or stored on his property.

After entering the dump site I was able to confirm that almost all of the old bales had been destroyed in the fire with only a charcoal like residue remaining. Also, only 4 to 5 burned out fifty-five gallon steel drums were apparently consumed by the fire. The fire had been quite extensive and had done a rather good job of cleaning up the unsightly mess that Jack McCormick and I had observed earlier.

And It was noted that Mr. Powell is currently allowing Callahan Construction Company to dump what appears to be a very light soot or dust on the property. The adust appears to be similar in nature to the material which is collected in electrostatic percipatators on foundry cupola exhausts. Powell indicated that Callahan Construction was also dumping waste construction materials on the site, and that from time to time a bulldozer is brought in to level off the piles of dust and construction debris. It does not appear that the stack dust is washing into the adjacent creeks at this time, however, this situation will only remain stable as long as material is not dumped any closer to the creek bank than it is presently being placed. Nonetheless, my investigation showed that this site is actually more secure from a illegal dumping than it was two years ago, and that it does not appear to be used as a chemical dump at this time. There remains, however, the open dump across Hooker Road from Mr. Powell's property and it is still accessable to the general public. That dump is also on the banks of Chattanooga Creek, and it probably receives wastes from the Chattanooga industrial area that once were dumped on Mr. Powell's property.

PLS/dfp

Site No. 7ND 9808 44229

Ref. No. 6

DATE TENNESSEE DEPARTMENT OF PUBLIC HEALTH OFFICE CORRESPONDENCE JGM. LP PLS DATE: June 29, 1976 ROL JUH CAS AZF KDS The Water Quality Control Files TO: FROM: Philip Stewart Dy-Therm Chemical Company Fire Debris Disposal SUBJECT: On June 24, 1976 Mr. Gene Wright called Jack McCormick to relay information on different aspects of the investigation which the City is conducting to determine the circumstances concerning the disposal of the fire debris and chemicals from the Dy-Therm fire of April 10, 1976. The information that Mr. Wright relayed + think Wr came from three different sources: Jerry Evans with the City Arson Squad had talked to Mr. Cuzzort with Lyons Wrecking Company and had learned that Lyons began tearing down the fire damaged Dy-Therm building about April 19, 1976. Hauling of the debris was started on April 24 or 25 and was finished May 7 or 8. Mr. Cuzzort said that the debris were taken to the 28th Street landfill. Mrs. Joe Torre has also told Jerry Evans that Joe Torre dumped all of the drums of fire damaged chemicals that he received from Lyons Wrecking Company at the Hooker Road Dump Site and then took the drums to a metal salvaging company. 编集员与部署;在中国的管理、改革管理等 Mr. Edgmon at Richelson Iron and Steel Company (a scrap metal dealer) said that 3,000 lbs. of drums were sold to Richelson Iron and Metal by Joe Torre on May 5,6, and 11. Mr. Torre sold 980 lbs. on May 5; 1,400 lbs. on May 6 and 640 lbs., on May 11. Mr. Edgmon said that some of the FROM drums had a strong odor of moth balls. : 7 The City of Chattanooga landfill records for the 28th TQ Street Dump indicate that Lyons Wrecking Company hauled . . . 136 cu. yards of fire debris to the site on May 3 and 32 cu. yards of fire debris on May 4. 350 The above information seems to indicate that Joe Torre did receive the drums of chemicals which contained aromatic chemicals from Lyons Wrecking Company, and that he drained the drums at the 3. a. 2. ...**ن**ــــنــ Hooker Road Dump and later sold the empty drums to Richelson Iron 95.25 and Steel. However, the number of pounds of used drums bought from --, 15.0 • 1.0 $\mathcal{N}_{\mathcal{A}}^{(1)}$:: A - ! 据 93

TENNESSEE DEPARTMENT OF PUBLIC HEALTH OFFICE CORRESPONDENCE DATE: June 29, 1976 TO: The Water Quality Control Files FROM: Philip Stewart SUBJECT: Dy-Therm Chemical Company Fire Debris Disposal Page 2

Richelson Iron and Steel.on May 5, 6, and 11 would indicate that something close to one hundred drums were received and this amount of drums is more than Lyons Wrecking had indicated previously that Joe Torre received from Lyons. However, Mr. Edgmon's remark that the drums contained a strong odor of mothballs indicates that at least some of the drums Mr. Torre sold Richelson Iron could have come from the Dy-Therm fire. Also the information received indicates that the fire debris from the Dy-Therm fire was disposed of in some manner several weeks prior to the incidents surrounding the South Chickamauga Creek fish kill of the week of May 24.

Mr. Wright said that he was going to continue to try to contact Joe Torre himself to determine certain wheter Mr. Torre did dump all of the chemicals he received from Lyons Wrecking at the Hooker Road Site. Mr. Wright said that this may be difficult since Mr. Torre is no longer answering his telephone in apparent apprehension of

his involvement in this affair.

Phil Stewart

FROM DATE

PLS/jdb

cc: D.W.Q.C., N.A.S.A.

c/o Wilton Burnette and Elmo Lunn

EXPERIMENTAL.

Site No. 7ND 9808 44229

TENNESSEE	DEPARTMENT OF PUBLIC HEALTH	10	DATE
	RESPONDENCE		
ATE:	June 25, 1976 $ORM_{\frac{6}{2}}$		File
	UGM <u>6/27</u> LP <u>7/2</u>	the	1:140/1
	PLS 7/0 RDL 7/2	- / A	mpla: At
TO:	The Files CAS 7/12		1996
FROM:	Philip L. Stewart and Jack R. McCormick AZF 1/10 KDS 7/14	cc:	Lufex
SUBJECT:	Dy-Therm Chemical Company Investigation $WFS \frac{7-15}{2}$		hemicel
			IW Y
			12111:14
			Val-Sta
	June 16, 1976, V. Wayne McCoy with Resource Consult called to report evidence which he believed might add credibi	ants (TW X
	charged the quantity of aromatics into the city sever miles	henyl	(Lanit
	and naphthalenes in South Chickamauga Creek and the Brainerd treatment plant during the recent crises. McCoy stated that	Sewage	ce: WQ
	的复数性性 经保护证据 计控制数据 化二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		Nas
	1. Lyons Wrecking Service, 4615 Maria Street, was contracted by Dy-Therm Chemical Company		% EMP
	to remove and dispose debris from the Dy- Therm fire which occurred on April 10, 1976	7	E Charles
	表面对象的数据,这种是一个The debris consisted of a couple of truck and		#31100
	loads of charred building material and sand described which was used to absorb spilled chemicals.	11	ment (
	Also, twenty (20) fifty-five gallon drums (9,000 lbs.) of dye carrier were involved.) "
	2. Lyons Wrecking took the debris and carrier		ממנון ממל נע
	學的學習透過的 18 % / A +o +be Summit landfill. 1 line Summit Land		1/00
FROM DATE	fill employees refused to allow the drums or carrier in the landfill (I am not certain	\mathcal{O}/\mathcal{P}	
	whether the debris was accepted).		
18 A.S. 11 A.S.	3. Lyons then subcontracted Mr. Joe Torre, Roy		
25 C	Road, to dispose of the carrier.		
	4. Mr. Torre says that on the weekend prior to the fish kill (the actual police report		
	says "sometime around May 10th through 15th"), he took the drums back to the		
7.7	I shakk the searce of the searce accepted to		
1.15 E. 15	Mr. Torre says he does not remember the exact day.		
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		CAPERINEN	TAL : :

FROM TO DATE

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE:

June 25, 1976

TO:

The Files

FROM:

Philip L. Stewart and Jack R. McCormick

SUBJECT:

Dy-Therm Chemical Company Investigation

Page Two:

- 5. The landfill employees say that Mr. Torre did not bring the carrier back to the landfill.
- 6. The above information was gained from Mr. Jerry Evans with Commissioner Roberts. Mr. Evans is with the Arson Squad which cannot take the matter any further, since it is a civil matter.

Mr. McCoy feels that the Division of Water Quality Control should further investigate to resolve the contradiction concerning the disposal of the 20 drums of dye carrier since criminal action under the Water Quality Control Act may have been committed if the carrier was dumped in the State waters by Mr. Torre. Mr. McCoy was told that the matter would be discussed with Jack McCormick.

At 2:15 p.m., on June 16th, "Bunky" Wright with the City of Chattanooga called to report that he had found where he thought the 20 missing drums of chemical from Dy-Therm had been dumped. Joe Torre had blurted out to him over the phone that he had dumped them down by Hooker Road. Wright had gone out first on June 16 to search for the dump site. He found nothing along South Chickamauga Creek. He had, however, found where he thought the drums were dumped in an illegal dump just off Hooker Road 50 to 75 yards from Chattanooga Creek. One drum half full of solid napthalene was still present. He had samples of the napthalene and the soaked rubbish.

Jack McCormick and Philip Stewart went with Wright to the site at about 3:00 p.m. on the same date. The smell at the dump site was very similar to the Lutex type smell. Small pools of liquid and large stains were present in roughly a 25 x 25 foot area. Some of the liquid was the white surfactant while some was the solvent type material which had partially dissolved pieces of asphalt in the area. (Sampels and pictures were taken. This is a bad dump which is undoubtedly polluting Chattanooga Creek -- not even considering the Dy-Therm Chemicals. Action by Solid Waste Management Division will be sought.

-We then, after checking a few more dump sites in the area, went to the site of the Dy-Therm fire. Still on site were 51 drums (55 gallon capacity) containing various amounts of the textile type chemicals --

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Tennesses department public Health — 22.

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

ATE:

June 25, 1976

The Files

FROM:

Philip L. Stewart and Jack R. McCormick

SUBJECT:

Dy-Therm Chemical Company Investigation

Page Three:

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smelling very much like Lutex. The chemicals were (by smell) the mixed dye carrier; the mixed surfactant, isopropylal cohol and methyl benzoate. None of the drums had labels, except for the methyl benzoate. None of the drums had labels, except for the company name; Fextile Light Chemicals, Inc., P. 0. Box 271, Gallaher Road, Dalton, Georgia 30720 (404-226-7133). Inquiry will be made as to what will be done with these remaining chemicals.

JRM:PLS:sks

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45:

FROM

Site No. 700 9808 44229

Ref. No. 8

COMPLAINT FORM

LAINT FORM

(MOOKE/Z RD BRIDGE

FDM-12F1688

Complainant Name Steve Kelley Address City of Chatt, City Received By Guy Moose Date	Tel. No. 6/5/757-518
Address City of Chatt, City	County 546
Received By Guy Moose Date	Time
Name of Complaintee Wille Powell Ad	dress 4900 Hooker N
Directions	
Nature of Complaint Demo, household	gallage dump
site.	
Oral X	
Written	Miss: Annute
Investigation - Findings and Action Taken $5-30-8$	6- Wane Eust P
By moose visted the site and of	note with arnets
Goins, assistant to Mr. Powell.	She stated that
Mr. Powell was out to the mo	
An him to call me to set up	Time to meet
for him to call me to set up on site. 6-13-86- visito t	6 tote with
Jim Children - site is ble	ing graded down
I wast coursed wille Powe	le never show y
forom 10:00 Am Appoint MINT.	Ime 16, 1986 - site
Clean D us of course.	
Signature H. M. Moozef, Date	6-18-1986
Huy 5-10' deep?; 2'3- 3acres? 2/8.	
Tons	6



4900 HOOKER ROAD CHATTANOOGA, TENNESSEE 37407 P. O. BOX 2687 (615) 867-3348 REASONABLE PRICES

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WILLIE'S USED CARS

4900 HOOKER ROAD P. O. BOX 2687 CHATTANOOGA, TN 37407

(615) 867-3348

Site No. 700 980844229

Ref. No. 19 5

DATE: December 10, 1987 TO: SIU Files FROM: Ferman D. Miller SUBJECT: Details of Telecon - pertinent site information On December 8, 1987 at 10:55 a.m./p.m. Ferman D. Miller of IN Division of Superfund contacted/was contacted by S.M. Warren (1) of Hamilton Concrete Products (Retire by telephone regarding Chattanooga Dumps Details of conversation: Following a telecon by T. Damiano to M. Warren regarding the 38th Street Dump, APD suggested that Mr. S.M. Warren may be a good contact for the history on dumps DSF is investigating. My notes were: #33596 DId Walker (Astec), Jerome and Hamill Road mostly foundry sand and demolition debris. #22606 Howard High, South Market Street: foundry sand and construction by Dave Brown #33622 Chattanooga Glass, Near Hooker Road Bridge: Waste glass and process sand #33586 Mid-State Materials-East, Wilson Road: No knowledge 1) Telephone 820-1129, address 1509 Chickamauga Trail, Lookout Mtn, GA 30750. S. M. Warren is the Father of Michael. Michael is S. M.'s agent regarding the 38th Street Dump. SMW is the owner of the 38th Street Dump.	TENNESS	EE DEPARTMENT OF HEALTH AND ENVIRONMENT
TO: SIU Files FROM: Ferman D. Miller SUBJECT: Details of Telecon - pertinent site information OnDecember B. 1987 at 10:55	OFFICE CO	
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- #33590 Hooker Road Bridge: Never authorized, individual dumping not companies.
- #33626 Morgan Street, between Chattanooga Creek and Morgan-extended: Did not remember but probably construction rubble and foundry sand. Mentioned another active dump on 32nd Street near the Crawley Company.
- #33601 38th Street: Began using in the early 50's. Initially, fill from the City, then waste concrete. 15' deep over 10 years
- #33540 Montague Park, East 23rd Street: City Fill, Solids, not garbage.
- #33605 Farmers Market, East 11th Street: Foundry sand and cinders.
 Contamination may be from the old Gas Company which used coal as a feedstock.

Misc. Comments:

- 1. Around 1960, Hugh Thatcher, while building a Pure Oil Station at Main and Broad, struck old coke bottles at 20' depth.
- 2. From Rossville Blvd to Cleo going east, and 35th to the I-24, extensive fill from demo debris.
- Waste foundry sand was used widely as a base to put concrete floors on.
- 4. A public dump will be needed when the current one on 38th St. is closed. The Mayor (Gene Roberts) did not show any interest in this when questioned in the past.
- 5. There must be a large turnover of groundwater in Chattanooga because of the large usage.

 Southern Cellulose 4M gpd M=Million
 Rossville Yarns (SCT) Standard-Coosa Thatcher
 Dixie Yarns

Site No. 7ND 9808 44229

Ref. No.

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TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT FROM DATE OFFICE CORRESPONDENCE DATE: February 16, 1988 TO: SIU Files FROM: F. D. Miller Details of Telecon - pertinent site information SUBJECT: February 16, 1988 at 10:10 (a.m./p.m. ofTN Division of Superfund (contacted) was contacted by of Alex's Used Foreign Car Parts Ms. Annette Goins by telephone regarding Hooker Road Bridge Dump. Details of conversation: I called for Willie Powell. who operates/owns a used car lot at the same location as the foreign car parts business. of this ERRIS list site in 1976 when the alleged chemical dumping occurred and during the fire in 1978. Both incidents were investigated by the Division of Water Quality Control. Mr. Powell's lot was last inspected in 1986 by the Division of Solid Waste Management. Ms. Goins will have Mr. Powell return my call on February 22, when he I shall request his permission to enter and inspect the site returns. to include taking photographs, but not samples at this time tele: 867-3348 Touled him 114m, 22 Feb. He has poor health but is cooperative. Tentative wed 7/24, pm. Call in Am. Lee pad tom Leave 130 Told Phil mongen

Misc. Comments:

- 1. There is not a hostile dog on-site
- 2. The locked gate and fence remain.
- 3. Ms. Goins has worked there since 1962 and she said there was no chemical dumping. Same debris had been covered by dirt or stone.
- 4. The cotton cloth scraps supposedly were left by Mr. Hughes and burned by a local boy. The flames were 50 feet high.
- 5. She was quick to point out the other dump across Hooker Road and the roadside dumping that persists.

Site No. 700 980844227 Ref. No. 2755

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

March 1, 1988

TO:

Hooker Road Bridge Dump File #33590

FROM:

Ferman D. Miller Am

SUBJECT:

PRP - FOR SI

FROM	ТО	DATE

Ferman Miller and Tony Damiano went to the Hamilton County Courthouse for a records search of the boundary limits on the Hooker Road Bridge site.

For 4800 Hooker Road, the owner is James W. and Eva B. Powell. The tax bill is sent to Mr. Powell's business at 2807 Rossville Boulevard. The size of the lot at 4800 Hooker Road is 22 acres and is found on Map 167M, group A, parcel 3. Another part of their holdings is Map 168P.

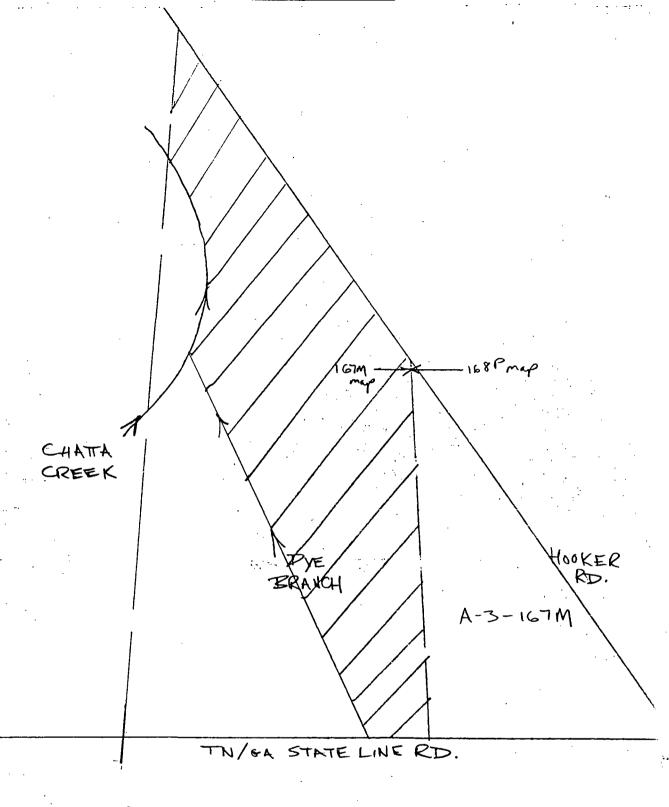
See the Attached map sketch made from the two maps in the Assessor's office.

In the Register's office, Book 1287 and page 288 was checked, and we learned that the Powells have owned 4800 Hooker Road since 1957, and the total size is 47.1 acres, for both adjacent holdings.

FDM: pph

Attachment

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Siteinvestigated is shown as ///

Composite of 2 Assessor's Office Maps - Hamilton Co, TN HOOKER RD, BRIDGE DUMP File #33590 No Scale FOM 2 May 88 Site No. 7ND 9808 44229

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

April 13, 1988

TO:

The Hooker Road Bridge Dump File Site # 33-590

FROM:

Robert L. Powell, TDSF Geologist

SUBJECT:

Geological Assessment of the Hooker Road Bridge Dump Site

FROM TO DATE 2 CP FDM

LOCATION

The Hooker Road Bridge Dump is located in the Alton Park section of Chattanooga just north of the Tennessee-Georgia line. The site is bordered on the north and east by Hooker Road and on the west by Chattanooga Creek and a small tributary that runs in a north-south direction from down in Georgia. (See reference #1)

TOPOGRAPHY

The site lies in a valley of low relief between two prominent ridges known as Hawkins Ridge (to the west) and Missionary Ridge (to the east). Relief in the site vicinity is approximately 20 feet or less as the floodplain is very flat-lying along this section of Chattanooga Creek. (see Reference #1)

GEOLOGY

The site is underlain by a group of rocks known as the Ordovician—Cambrian Knox Group, Undifferentiated. This group is described as a dolomite and minor limestone, very siliceous, light—to dark—gray, fine—to coarse—grained, thin—to thick—bedded, and weathers to a charty rubble.

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The thickness is considered to be approximately 2600 feet thick. The Knox in the immediate vicinity of the site is mapped as a long narrow outcrop striking in a north-south direction that is controlled by thrust faults. Since relief is low formation boundaries are not as distinguishable and hence the area is mapped as a group.

A major thrust fault known as the Chattanooga Fault lies approximately 1200 feet to the west of the site. This fault trends in a notrh-south direction and semiparallel to other major thrust faults in East Tennessee. To the east the next major fault is the Missionary Ridge Fault which lies approximately 1.5 miles away. However, the area is complex and it is possible that less prominent thrusts are between this region the control of which is not well understood at present. (see reference #2)

HYDROLOGY; SURFACE

The site is drained by a small unnamed tributary which borders the site on the west. This tributary flows north-northwest and empties into Chattanooga Creek. Chattanooga Creek which also borders a portion of the

site on the west meanders north and west and ultimately empties into the Tennessee River in the Moccasin Bend area a few miles northwest of the site. (see reference #3)

HYDROLOGY; SUBSURFACE

The prominent unconsolidated material underlying the site is alluvium. It is not known to be an important source of groundwater probably due to its thin nature. However, groundwater in units of the Knox Group can be quite substantial with yields of 100 g.p.m. or more. The availability of groundwater in these limestones and dolomites is primarily dependent on the distribution of fractures and the amount of solutionally enlarged zones. Predicting the yield of a well is difficult because the distribution of such conduits is very often erratic. (Reference #4) This is possibly due to the siliceous nature of some of the Knox units. In the vicinity of the site it is believed that water is transmitted very readily in the Knox because just to the north there is an area of obvious sinkholes. (Reference #2, p. 59 and Reference #3)

There is a list of inventoried Industrial wells in this vicinity of Chattanooga. The depths of these wells range from tens of feet to over 1300 feet deep. The value of this list is that it indicates that these limestones and dolomites yield substantial amounts of water, however, the details of these well logs is suspect and therefore not considered very reliable. (Reference #5)

SOILS

The prominent soil type that has been mapped in the site vicinity is known as the Tupelo Silt Loam (Tu). The Tupelo Silt Loam is a somewhat poorly drained, nearly level and gently sloping soil on stream terraces, flat slopes of ridges, and in depressions on the uplands. Slopes range from 0 to 3 percent. The upper 8 inches is a yellowish-brown silty clay mottled in shades of brown and gray. The uncerlying material is a gray clay that extends to a depth of 60 inches or more.

This soil is low in organic matter and ranges from slightly acid to strongly acid throughout. The permeability is slow, and the available water capacity is moderate.

In the northeast corner of the site between Hooker Road and Chattanooga. Creek there is a small section mapped as Arents, gently sloping (ArB). This map unit consists of soils that have been moved or deeply mixed by machinery. Most of this unit is a result of cutting and filling to shape the land surface. These areas therefore are primarily fill material and very heterogeneous. (Reference #6)

REFERENCES

- 1. (1982) Fort Oglethorpe, GA-TN Quadrangle Topographic Map, 106-NE.
- 2. Edward T. Luther (1979): Geology of Hamilton County, TN, Bulletin 79, Tennessee Division of Geology, pp. 19, 119, and geologic map section.
- 3. (1976) Chattanooga Quadrangle Topographic Map, 105-SE.
- 4. G. D. DeBuchananne and R. M. Richardson (1956): Groundwater Resources of East Tennessee, Bulletin 58, Tennessee Division of Geology, p. 186.
- 5. (1987) Division of Groundwater Protection Printout of South Chattanooga wells.

Site No. TND 980844229

Ref. No. 4

Site No. 7ND 9808 44229

E DEPARTMENT OF HEALTH AND ENVIRONMENT	FROM	DATE
PRESPONDENCE		
January 15, 1988		
SIU Files	* •.	
Ferman Miller		
Details of Telecon - pertinent site information		
of Chattanooga Housing Authority contacted/ Ferman D. Miller's call of IN Div. by telephone regarding Hooker Road Bridge #33590 Details of conversation: 1. Ferman Miller requested permission to enter the do a SI. Mr. Cooper implied consent and asked which was supplied, and he requested to be infiniturns up.	/was contacted of Superfund is Site to I for some back ormed if any	d by/returned d CFO
		•
3. CHA has owned this property since the early 19. Tele: 756-7171 Address: 505 W. MLK Blvd. P.O. Box 1486 Chattanooga, TN 37401	60's.	
	January 15, 1988 SIU Files Ferman Miller Details of Telecon - pertinent site information On 14 Jan. 88 at 1:05 a.m./p.m. I of Chattanooga Housing Authority contacted. Ferman D. Miller's call of IN Div. by telephone regarding Hooker Road Bridge #3359n Details of conversation: 1. Ferman Miller requested permission to enter the do a SI. Mr. Cooper implied consent and asked which was supplied, and he requested to be information. 2. No to splitting samples, if any samples are taged and the requested to be information. 3. CHA has owned this property since the early 19 Tele: 756-7171 Address: 505 W. MLK Blvd. P.O. Box 1486	January 15, 1988 SIU Files Ferman Miller Details of Telecon - pertinent site information On 14 Jan. 88 at 1:05 a.m./p.m. Bill Cooper, of Chattanooga Housing Authority contacted/was

Charles Anna Sabrember 1900

Site No. 700 980844229.

Ref. No.

SURVEY OF CHATTANOOGA CREEK--MOUTH TO STATE LINE AQUATIC FLESH, WATER QUALITY, SEDIMENT, AND BENTHIC BIOLOGY WITH

DATA PRESENTATION ON HAMILL ROAD DUMP CHATTANOOGA, TENNESSEE

1981 and 1982

PREPARED BY:
CHATTANOOGA BASIN OFFICE OF
DIVISION OF WATER MANAGEMENT
TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

JUNE 1983

Site No. 700 980844229

HOOKER RD. BRIDGE DUMP TND 98084429

PLANNING DISTRICT ANALYSIS

CHATTANOOGA-HAMILTON COUNTY, TENNESSEE

P.D. #2 South Center City

Prepared by:

Chattanooga-Hamilton County Regional Planning Commission

Dale Mabee, Chairman
Richard Abercrombie
Arthur C. Campbell
Ron Littlefield
Ardena J. Garth
Robert J. Hames
Carolyn P. Henning
A.L. Jackson
Rathmell Plumlee
Philip E. Rhodes
Dalton Roberts, County Executive
Gene Roberts, Mayor of Chattanooga
Earl C. Smith
Howard Sompayrac
Mrs. Jinx White

Participating Staff

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Harold E. Walters, Assistant Director
*Robert P. Shepard, Chief of Research
*Jerry E. Pace, Chief of Graphics
Bill W. Allen, Transportation Planning Coordinator
Genevieve Harmon-Smith, Assistant Transportation Planning Coordinator
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Gloria Haney, Administrative Assistant
Ann Sitton, Secretary
*Carol Wilmhoff, Secretary

Summer, 1987

^{*}Major Staff Members Assigned to Project

TABLES AND MAPS

				PAGE	NUMBER
ABLI	ES		*		4
1.	Land Use Changes	•			8
2.	Population Projections			 	я.
3.	Gross Density				9
4.	Population				9
5.	Race		-		10
6.	Age Structure				10
7.	Percent High School Gradu	ates			11
	Percent With 4 Years of M				11
	Family Types				12
10.	Median Family Income and	Changes			12
11.	Families with Income Belo	w Poverty Leve			13
12.	Place of Employment				15
13.	Housing Occupancy				15
	Structural Age				16
15.	Housing Units Without Cor	mplete Kitchens			17
	Housing Units Without Pl				1 <i>7</i>
	Housing Unit Projections				17
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APPENDIX (MAPS)

Population and housing data for 1960, 1970 and 1980 were prepared by the U.S. Bureau of the Census. Population projections for 1985 and subsequent years, and the land use and land area measurements, were prepared by the Chattanooga-Hamilton County Regional Planning Commission.

PLANNING DISTRICT 2 ANALYSIS

INTRODUCTION

Location

Planning District 2 is within the southwestern part of the City of Chattanooga. It is bounded:

- on the north by I-24 and Chattanooga Creek,
- on the east by the Town of East Ridge,
- on the south by the Tennessee-Georgia state line, and
- on the west by the Chattanooga city limits at the foot of Lookout Mountain.

Census Tracts 18, 19, (23) 24 and 25 are included in this district.

Locally, Census tract 18 is known as St. Elmo, Census Tract 19 is known as Alton Park, and Census Tracts (23) 24, and 25 are known as East Lake and Missionary Ridge.

History

The settlement in this area probably began between 1860 and 1885. An 1886 lithograph shows Broad Street, a mill, the railroad crossing Chattanooga Creek, a bridge across Chattanooga Creek in the vicinity of Alton Park Boulevard, and Rossville Boulevard.

East Lake (Census Tracts (23) 24 and 25) was annexed to the City of Chattanooga in 1925.

St. Elmo (Census Tract 18), Alton Park (Census Tract 19) and Missionary Ridge were incorporated satellite cities, but gave up their charters and were annexed to Chattanooga in 1930.

LAND USES AND PHYSICAL FEATURES

The largest single category of land use in Planning District 2 is the "vacant" category. 42.5% of this land is subject to overflow, and 32.2% is too steep for easy development, but that still leaves about 460 acres in the district that could be developed relatively easily. The next largest land use category is residential with 26.2%, followed by streets with 15.2% of the land area.

For many reasons, not the least of which was the presence of a large amount of railroad trackage, Planning District 2 contains much of Chattanooga's older industrial development. While industrial uses might seem to dominate the district, that category of land use occupies only 7.5% of the total area and 10.6% of the developed area. The foundries and coal-tar based chemical operations tend to be located in the Alton Park area, while distribution and light industry are more widely distributed.

Trends

Throughout Planning District 2 a decrease in land devoted to single-family residential use is occurring. This can be explained somewhat by the conversion of single-family structures to two unit structures, particularly in Census Tract 18 (Saint Elmo). In Census Tracts 24 and 25 new duplex development along the base of Missionary Ridge has occurred and the decline in single-family uses is more frequently due to the conversion of single-family residential properties along Oodds Avenue to commercial use.

A moderate increase in commercial land is being experienced in all areas of the district except Saint Elmo where a slight decrease has occurred. The district is experiencing some expansion of industrial areas in Census Tracts 19, 23, and 24. However, field studies indicate that much of the existing industrial land in these areas is underutilized.

Opportunities

Roughly one third of the total acreage in Planning District 2 remains vacant. However, large areas prone to flooding make up most of this acreage. Much of the rest is difficult to develop due to steep slopes (Missionary Ridge, the ridge between St. Elmo and Alton Park, and Lookout Mountain). Still, land for development and redevelopment is available and can be utilized with effective development controls in some areas and private and public market incentives in others.

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	Tra	ct 23		<u>Tra</u>	ct 24.	
Land Use	1985 Acres	1972	1985 %	1985 Acres	1972 %	1 <i>9</i> 85 %
Residential	182.6	16.3	16.9	374.1	50.7	49.1
Single-Family	159.0	15.0	14.7	342.4	49.0	44.9
Duplexes	19.5	1.0	1.8	. 22.5	1.2	3.0
Multi-Family	2.6	.1	1.8	8.0	.3	1.0
Residential Parking Trailers Vacant	.0			.0		
vacant	1.1	.2		1.2	and same of a	
Industrial	85.0	7.4	7.9	25.8	3.1	3.4
Commercial	₹ 105.8	5.5	9.8	55,3	6.0	7.3
Institutional	23.0	1.6	2.1	20.9	2.0	2.7
Recreation	2.6	• . •	2	10.5	1.5	1.4
Transportation Communication and Utilities	34.0	3.0	3,2	7.6	.9	1.0
Agriculture	.4	-	-	.0		-
Streets	154.4	13.8	14.3	162.1	21.0	21.3
Vacant	482.0	51.6	44.7	105.7	14.9	13.9
Water	9.5	.8	.9	.0	-	-
TOTAL	1,079.3	100.0	100.0	762.0	100.0	100.0

POPULATION PROJECTIONS

CENSUS TRACT	1980	1985	1990	1995	2000	1980-2000 % Change
18	4,188	3,883	3,577	3,162	2,748	- 34.4
19	7,515	7,027	6,539	6,189	5,839	- 22.3
23	1,925	1,702	7,480	1,232	983	- 49.0
24	4,705	4,314	3,922	3,546	3,170	- 32.6
25	5,064	4,570	4,077	3,745	3,414	- 32.6
Total District	23,397	21,496	19,595	17,874	16,154	- 30.6
County	287,740	297,004	306,267	314,294	322,320	+ 12.01

GROSS DENSITY POPULATION PER ACRE

CENSUS_TRACTS	1960	1970	1980
18	3.1	2.9	2.4
19	5.0	5.0	4.2
23	3.1	2.3	1.8
24	8.2	7.1	6.2
25	7.2	5.3	5.1
Total District	4.9	4.3	3.7
County	.6	.7	.8

POPULATION

Characteristics

The population in Planning District 2 is racially mixed with a higher percentage of minorities than the city as a whole. Generally, the East Lake area remains predominantly white, the Alton Park area is predominantly black, and Saint Elmo is mixed. Overall, the district's population has more elderly citizens and more school age children by percentage than the SMSA average. Census Tract 19's youth population is well above the average while the other tracts are more typical in that regard. All census tracts except 19 have elderly populations above the SMSA average.

The educational levels of the district's population throughout are well below the city average. Family incomes throughout the district are also well below the city and county averages. Only Census Tract 24 has a percentage of family incomes below the poverty level that fall below the city and county median. Over a third of the families in Planning District 2 are headed by single women. In Census Tract 19 single parenthood has reached crisis proportions.

Trends

A continued decline in population is projected for all census tracts in Planning District 2. Meanwhile, the minority percentage of the total population increases. The percentage of elderly in the population is increasing in all census tracts, while the school age population is decreasing. Educational level averages are increasing in all Census Tracts except 18. Real income is falling on average in Census Tracts 18, 19 and 25, and rising in Tracts 23 and 24.



POPULATION

Tract	1960	1970	t Change	1980	Z Change
18	5,372	4,948	- 7.9	4,188	- 15.4
19	8,984	8,901	- 0.9	7,515	- 15.6
23	3,292	2,429	26.2	1,925	- 20.7
24	6,283	5,398	- 14.1	4,705	- 12.8
25	7,161	5,304	- 25.9	5,064	- 4.5
Total District	31,092	26,980	- 13.2	23,397	- 13.3
City	130,009	119,082	- 8.4	169,565	42.4
County	237 , 905 ~~;	254,236	6.9	287,740	13.2
SMSA	283,169	304,927	7.7	426,540	39.9

RACE

Tract		g White	760 Z Non-White	% .	70 % Non-White	1980 % % White Non-White
18		73,0	27.0	72.4	27.6	59.9 40.1
19		8.2	91.8	2.6	97.4	1.4 98.6
23		84.9	15.1	86.4	13.6	84.9 15.1
24	•	99.2	0.8	99.0	1.0	97.9 2.1
25	· ·	91.3	8.7	90.3	9.7	76.8 23.2
Total D	istrict	65.1	34.9	59.5	40.5	54.5 45.5
City		66.7	33.3	64.0	36.0	67.7 32.3
County		80.1	19.9	81.6	18.4	79.9 20.1
SMSA		82.4	17.6	83.8	16.2	85.4 14.6

HOUSING UNITS WITHOUT COMPLETE PLUMBING

	1960	,	. 197	0	. 1980	,
Census	Total Housing	Total W/O	Total Housing	Total W/O	Total Housing	% of Total W/O
Tracts	Units	P1 umb	Units	Plumb	Units	P1 umb
18	1804	7.9	1830	1.4	_ 1757	1.4
19	21 29	22.2	2543	.5	2346	.9
23	942	29.3	837	4.8	765	.4
24	2013	17.0	1984	1.3	1988	1.4
25	2291	9.2	2064	.8	2145	.6
Total .	9179	15.7	9258	1.3	9002	1.0
City	41979	19.9	43857	2.1	66583	.9
County	74377	19.5	87473	4.0	109969	1.2
SMSA	87929	21.0	103879	5.0	160615	1.9

HOUSING UNIT PROJECTIONS

Census Tract	1980	1985	1990	1995	2000	% Change (1980-2000
18	1,757	1,706	1,654	1,524	1,395	-20.6
19	2,346	2,366	2,385	2,353	2,321	- 1.1
23	766	710	653	. 565	477	-37.7
24	1,988	1,938	1,887	1,784	1,680	-15.5
25	2,145	2,063	1,982	1,893	1,803	-15.9
Total District	9,002	8,781	8,561	8,119	7,676	₽ 14.7
County	109,969	120,423	130,876	139,973	149,070	35.6



Recreation Facilities

Alton Park Recreation Center

McCallie Homes Recreation Center

Emma Wheeler Recreation Center

Poss Homes Recreation Center

East Lake Courts Recreation Center

East Lake Recreation Center

East Lake Park

Cedar Hill Playground

Piney Wood Playground

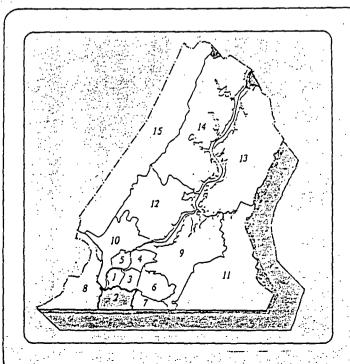
Park City Playground

Bragg Reservation

CENSUS TRACTS AND NEIGHBORHOODS



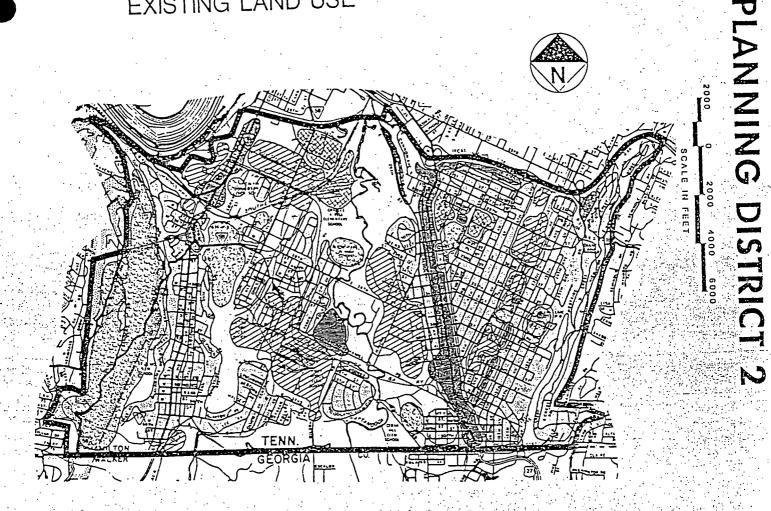
SOUTH CENTER CITY



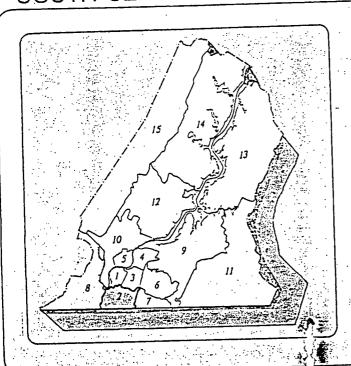
Legend:

--- CENSUS TRACT BOUNDARIES

EXISTING LAND USE



SOUTH CENTER CITY



Legend:

RESIDENTIAL

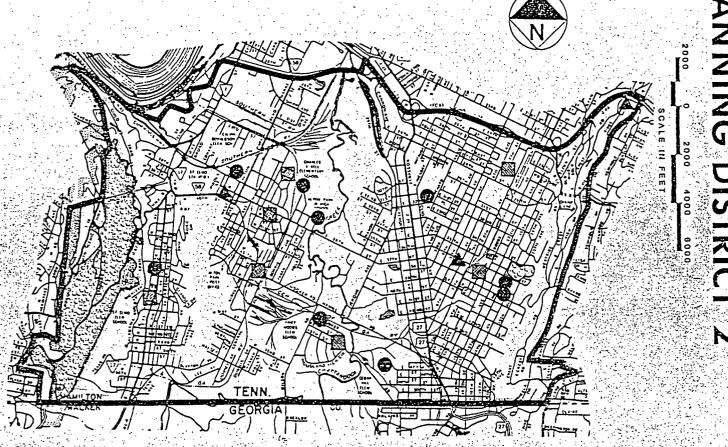
COMMERCIAL

INDUSTRIAL PUBLIC/SEMI-PUBLIC

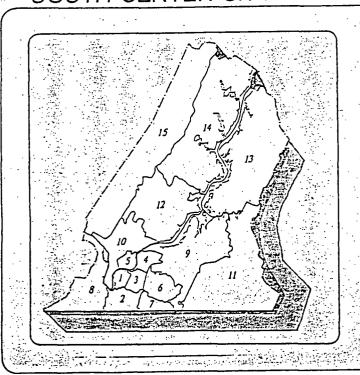
TRANSPORTATION

VACANT

PUBLIC FACILITIES



SOUTH CENTER CITY



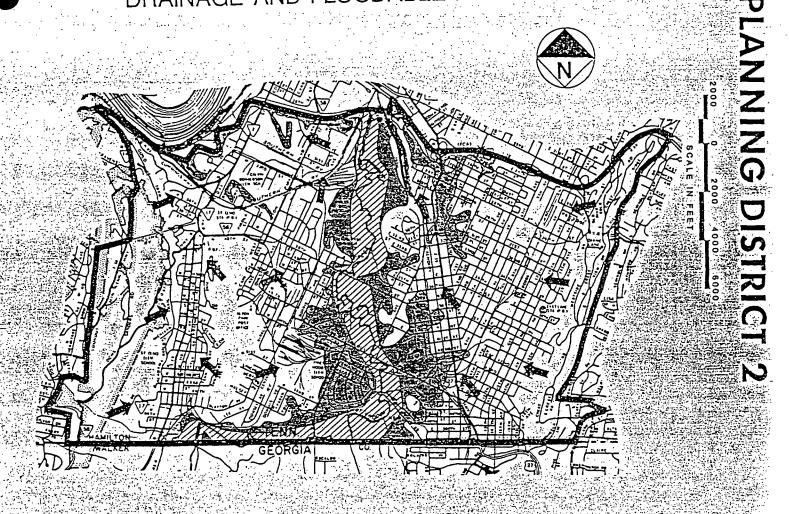
Legend:

- SCHOOLS
- FIRE STATIONS
- RECREACTION CENTERS

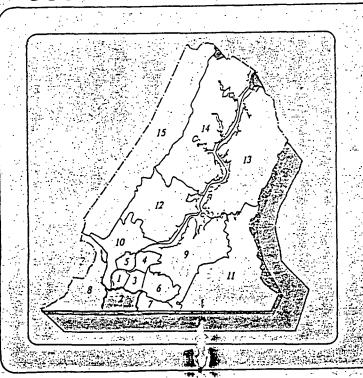




DRAINAGE AND FLOODABLE AREAS



SOUTH CENTER CITY



Legend:

FLOW OF DRAINAGE
FLOOD HAZARD AREA
(100 year flood)
FLOODWAY

E No. 7NT -7808 4422,7

No._ Ref

TO: The Hooker Road Bridge File #33590

FROM: Anthony P. Damiano DATE: December 29, 1987

SUBJECT: File search to obtain more data and to confirm existing data on the Hooker Road Bridge Dump.

A reference to photographs taken during a site inspection was made in a letter from Jack McCormick to Wayne McCoy(Resorce Consultants) on June 24, 1976. The photographs can be found in the Division of Water Quality on the third floor in the SERO office. The photographs are in tray XVI, pictures 35 - 42. The photographs mainly show the synthetic fiber waste, but show no drums. The photographs also show some of the construction debris that was dumped on the site.

A reference to samples taken during a site inspection was made in the same June 24, 1976 letter. No record of the samples could be found in the Division of Water Pollution's files. The type and quantity of waste alleged to have been dumped at the Hooker Road Bridge Dump is still for the most part unsubstantiated.

Site No. 7ND 9808

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

November 19, 1987

TO:

Ferman Miller, Division of Superfund, Chattanooga

FROM: CJS Craig Stannard, Division of Ground Water Protection,

Chattanooga

SUBJECT:

Information Concerning Wells in the Chattanooga Area

FROM TO DATE

As per your request, wells in the Chattanooga area, south of the Tennessee River, east of Lookout Mtn., and west of Missionary Ridge are listed and described below:

- Uniform Rental Services Inc. has one or more wells at its plant on Tennessee Avenue. Specific details are not known.
- Velsicol Chemical Corporation has several monitoring wells at "Residue hill." che file for no rective
- 3. Southern Wood Piedmont Company at 400 East 33rd Street has at least sixteen monitoring wells of shallow depth.
- Chattanooga Glass Company has a well at its plant facility .at 401 West 45th Street. According to company officials it was drilled by Bacon Well Drilling Company in 1982 and it is approximately 325 feet deep. The well water, which is used for industrial purposes only, is reportedly of good quality and quantity.
- 5. Southern Cellulose Products Inc. has two wells located on 38th Street just east of Chattanooga Creek. According to company officials, the two wells were drilled in 1976 by Miller Drilling Company and are approximately 150 feet deep. Only one of the wells is currently in use. The other well is auxilliary. The water withdrawn is used for processing purposes only and the water quality and quantity are reportedly good.
- Tennessee Truck Parts Company at 400 East Main St. has a well that is reportedly used for industrial purposes only. It is 145 feet deep and was completed in 1979.
- 7. Will-Wear Hosiery has a well located at or near its 2000 Stuart Street plant location. The well is reportedly 1,301 feet deep and is used for industrial processes only.
- Chattanooga State College at 4501 Amnicola Highway has a 512 foot deep well that is used to supply water to the campus water fountain.

- Wheland Foundry at 2800 South Broad Street has a 61 foot deep well that is used for monitoring purposes.
- 10. Ledco Inc. at 3535 St. Elmo Avenue has a 250 foot deep well that provides water for the company's heat pump.
- 11. Gateway Hosiery Mills at 1220 East Main Street reportedly has a well that is used to provide processing water for its operations. The well is of unknown depth but is reportedly contaminated with perchloroethylene, benzene and a number of other organic chemicals at the ppm level. The well was reportedly drilled by Miller Drilling Company.
- 12. Alco Chemical Corporation at 909 Miller Avenue has a 600 foot deep well that provides water for industrial uses at the plant.
- 13. A well located at 1400 Citico Avenue, belonging to Robert Nabors, is reportedly 343 feet deep and was drilled earlier this year. It is not being used at this time.
- 14. A well has recently been completed for a car wash that is being built near the intersection of Wilcox Blvd. and Chamberlain Avenue. Its depth is not known but it was reportedly drilled by Miller Drilling Company.

The wells are listed 1-14 on the enclosed location map. Well log information concerning some of the wells is also enclosed.

CJS/tdm

Enclosures

cc: Robert Powell, Division of Superfund, Nashville

D98084429

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(670) SERVED JANS SMITH ROAD JANS SMITH ROAD JANS WELL #2 035-14-22 085-00-38 SIGNAL MOUNTAIN STATEM SIGNAL MOUNTAIN JATER SYSTEM SIGNAL MOUNTAIN JATER SYSTEM IN-A-PRECISAL WATER EQ. 1101 ROAD SIREET JANS STATEM WATER CO. 1101 ROAD SIREET ATTOMATIC STATEM WATER EQ. 1101 ROAD SIREET ATTOMATIC STATEM WATER ASSOC DIALEGE OF COLUMN AND STATEM STATEM STATEM COLUMN AND STATEM AND STATEM COLUMN AND STATEM AND STATEM COLUMN AND STAT	COMMUNITY PURLIC WATER SUPPLIES IN TENNESSEE . 632487 PAGE 19 MAILING NAME SOURCE NAME LAT LONG MILE PROC. (GPD.) SERVID VUMPSES SIVANIAH VALLET UD. SOURCE NAME LAT LONG MILE PROC. (GPD.) SERVID VUMPSES SIVAL MOUNTAIN WATER SYSTEM TO A RIDEWAY AVE. SIGNAL MOUNTAIN WATER SYSTEM 37377 TERM AMERICAN 035-03-15 085-17-19 000,495,000 035,125 513-314-3440 CHIL #2 055-14-22 085-00-38 SIGNAL MOUNTAIN WATER SYSTEM TO A RIDEWAY AVE. SISMAL MOUNTAIN WATER CD. 37377 TERM AMERICAN 035-03-15 085-17-19 000,495,000 035,583 615-885-2177 WATER ORDER OF THE THE CD. 2740 MIGHES ROOD WATER ORDER OF THE THE CONTROL OF

Site No. 7ND 9808 44229

Ref. No.

5

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States Environmental Protection Agency Site No. 7ND 9808 44229

Ref. No. 12 5

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

August 29, 1986

TO:

Chattanooga Creek File

FROM:

G. S. Caruthers

SUBJECT:

Trip Report

FROM	то	DATE
SIU	file	
· .	·	

On August 28, 1986, I conducted a water use survey in the Rossville, Georgia area. The area involved consists of areas of Rossville and Walker County, Georgia which lie within a 3 mile radius of several sites in the Chattanooga Creek floodplain.

Conversation with Henderson Wellborn, superintendent of the Walker Co. Water and Sewerage Authority in Flintstone, Georgia, indicates that all areas of the county outside the cities are served by that utility. Mr. Wellborn stated that their lines now run all the way to the Tennessee state line west of Rossville and meet but do not interconnect with those of the city of Rossville. The small residential area near the state line outside the city limits of Rossville is served by WCWSA, according to Mr. Wellborn. He stated that all water distributed by WCWSA comes from Crawfish Springs Lake near Chickamauga, Georgia, about 7 miles south of Rossville and well outside the three-mile radius area. Mr. Wellborn said he knew of no private wells currently in use in the affected area.

Mr. Lee Britton, superintendent of the Rossville Public Works Department, was not available, but conversation with employees at the PWD maintenance lot confirmed that all areas were covered by either the Rossville or Walker County water systems. Rossville obtains its water from Tennessee-American Water Company in Chattanooga.

The trip was concluded with a brief reconnaissance of selected sites in the Chattanooga Creek area to ascertain conditions to be encountered in conducting site inspections which will probably be scheduled in FY 1987.

GSC/djk

FROM DATE
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16
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Site No. 7ND 980844229

Ref. No.



TENNESSEE WILDLIFE RESOURCES AGENCY

P. O. BOX 40747
NASHVILLE, TENNESSEE 37204

December 19, 1985

Mr. Gordon Caruthers
Solid Waste Management Division
Department of Health & Environment
701 Broadway
Nashville, TN 37219

Dear Gordon:

In response to your call of December 19, I am happy to enclose descriptions of critical wildlife habitat of Tennessee, as designated by the U.S. Fish and Wildlife Service.

Please advise if I can be of further assistance.

Sincerely,

TENNESSEE WILDLIFE RESOURCES AGENCY

Robert M. Harcher, Coordinator Nongame/Endangered Species

PME/ch enc.





ENDANGERED AND THREATENED WILDLIFE AND PLANTS

JULY 20, 1984

so CER 17.11 and 17.12

Department of the interior U.S. Flan and Wildlife Service

soil survey of Hamilton County, Tennessee

United States Department of Agriculture Soil Conservation Service in cooperation with Tennessee Agricultural Experiment Station Site No. 7ND 9808 44229

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE:

September 29, 1978

TO:

Water Quality Control Files

FROM:

Phil Stewart

SUBJECT:

Waste Materials Dump, Hooker Road,

Chattanooga, Hamilton County

FROM TO DATE Complailits

On September 13, 1978 Roy Warren told Jack McCormick about an alleged "chemical dump" on Hooker Road behind Bodine's Auto. Parts in Chattanooga. Warren stated that the dump had burned about three weeks earlier and that the Chattanooga Fire Department had responded to the fire. Warren reported that there were barrels of waste chemicals on the site. On September 20, 1978 at Jack McCormick's request, I visited the dump site which is located south of Hooker Road on the banks of McFarland Springs Branch 600 HS of HRBS and Chattanooga Creek and is west of the Bodine automobile scrap

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(This dump site is the same that was visited by Jack McCormick and Phil Stewart on June 16, 1976 in the aftermath of the Dy-Therm Chemical warehouse fire that occurred on April 10, 1976 at 20th and Broad Streets, Chattanooga. Bunky Wright with the City of Chattanooga had located what appeared to be some of the fire debris which included unknown chemicals that had been dumped at the Hooker Road site. Since the chemicals handled by the Dy-Therm Chemical Company were similar to chemicals processed by the Lutex Chemical Company (also causing problems at that period of time), we were very interested in the dump and its contents. During our investigation it was noted that a large amount of baled synthetic fiber wastes had been dumped in the woods at the site and probably numbered in the hundreds. The bales were very large, measuring approximately 3' by 4'by 4 feet, but, other than being unsightly, they did not appear to be creating a water pollution hazard or potential. The dump site in general was being used by persons disposing of construction materials, miscellaneous industrial scrap, household debris and garbage. Other than two or three drums of chemicals from the Dy-Therm fire, no other drums were noted at the site at that time.)

FROM

TO

DATE

On arriving at the site on September 20, 1978, I discovered that the access to the dump site had been sealed off by an eight foot high chain link fence and gate along Hooker Road. I determined from the people at Bodine's Auto Parts that the owner of the dump site property was a Mr. Willy Powell who operates an auto parts yard a block south on Hooker Road. Mr. Powell was visited at his business establishment and permission to enter the dump site was requested. Mr. Powell first was reluctant when he was told the nature of my visit, and he stated that he knew nothing of any drums of chemicals ever being stored on his property. However, he did

Told NE.

Office Memorandum September 29, 1978 Page Two

state that the bales of fiber wastes which were located there had burned earlier as the result of someone setting fire to the material.

Mr. Powell indicated that he had been trying to get the party originally responsible for dumping the bales to remove them from his property, but the fire seemed to have solved that problem. Mr. Powell finally gave me the key to the chain link fence gate, and told me to make a "full investigation" and report back to him if I found any chemicals dumped or stored on his property.

After entering the dump site I was able to confirm that almost all of the old bales had been destroyed in the fire with only a charcoal like residue remaining. Also, only 4 to 5 burned out fifty-five gallon steel drums were apparently consumed by the fire. The fire had been quite extensive and had done a rather good job of cleaning up the unsightly mess that Jack McCormick and I had observed earlier.

It was noted that Mr. Powell is currently allowing Callahan Construction Company to dump what appears to be a very light soot or dust on the property. The dust appears to be similar in nature to the material which is collected in electrostatic percipatators on foundry cupola exhausts. Powell indicated that Callahan Construction was also dumping waste construction materials on the site, and that... from time to time a bulldozer is brought in to level off the piles of dust and construction debris. It does not appear that the stack dust is washing into the adjacent creeks at this time, however, this situation will only remain stable as long as material is not dumped any closer to the creek bank than it is presently being placed. Nonetheless, my investigation showed that this site is actually more <u>secure from a illegal dumping than it was two years ago, and that it</u> does not appear to be used as a chemical dump at this time. There remains, however, the open dump across Hooker Road from Mr. Powell's property and it is still accessable to the general public. That dump is also on the banks of Chattanooga Creek, and it probably receives wastes from the Chattanooga industrial area that once were dumped on Mr. Powell's property.

PLS/dfp

Site No. 7ND 9808 44229

Ref. No. 6

FROM TO TENNESSEE DEPARTMENT OF PUBLIC HEALTH DATE **JRM** OFFICE CORRESPONDENCE JGM LP DATE: June 29, 1976 ROL JUH CAS AZF KUS The Water Quality Control Files FROM: Philip Stewart SUBJECT Dy-Therm Chemical Company Fire Debris Disposal On June 24, 1976 Mr. GeneWright called Jack McCormick to relay information on different aspects of the investigation which the City is conducting to determine the circumstances concerning the disposal of the fire debris and chemicals from the Dy-Therm fire of April 10, 1976. The information that Mr. Wright relayed came from three different sources: Jerry Evans with the City Arson Squad had talked to Mr. Cuzzort with Lyons Wrecking Company and had learned that Lyons began tearing down the fire damaged Dy-Therm building about April 19, 1976. Hauling of the debris was started on April 24 or 25 and was finished May 7 or 8. Mr. Cuzzort said that the debris were taken to the 28th Street landfill. Mrs. Joe Torre has also told Jerry Evans that Joe Torre dumped all of the drums of fire damaged chemicals that he received from Lyons Wrecking Company at the Hooker Road Dump Site and then took the drums to a metal salvaging company. Mr. Edgmon at Richelson Iron and Steel Company (a scrap metal dealer) said that 3,000 lbs. of drums were sold to Richelson Iron and Metal by Joe Torre on May 5,6, and 11. Mr. Torre sold 980 lbs. on May 5; 1,400 lbs. on May 6 and 640 lbs., on May 11. Mr. Edgmon said that some of the FROM drums had a strong odor of moth balls. The City of Chattanooga landfill records for the 28th Street Dump indicate that Lyons Wrecking Company hauled 136 cu. yards of fire debris to the site on May 3 and 32 cu. yards of fire debris on May 4. : c The above information seems to indicate that Joe Torre did receive the drums of chemicals which contained aromatic chemicals from Lyons Wrecking Company, and that he drained the drums at the 9 3 1 3 3 Hooker Road Dump and later sold the empty drums to Richelson Iron and Steel. However, the number of pounds of used drums bought from Marie Co . - الرابيته وا 1.1 **始**。2008

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12.00

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE:

June 29, 1976

TO:

The Water Quality Control Files

FROM:

Philip Stewart

SUBJECT:

Dy-Therm Chemical Company Fire Debris Disposal

Page 2

FROM TO DATE

Richelson Iron and Steel.on May 5, 6, and 11 would indicate that something close to one hundred drums were received and this amount of drums is more than Lyons Wrecking had indicated previously that Joe Torre received from Lyons. However, Mr. Edgmon's remark that the drums contained a strong odor of mothballs indicates that at least some of the drums Mr. Torre sold Richelson Iron could have come from the Dy-Therm fire. Also the information received indicates that the fire debris from the Dy-Therm fire was disposed of in some manner several weeks prior to the incidents surrounding the South Chickamauga Creek fish kill of the week of May 24.

Mr. Wright said that he was going to continue to try to contact Joe Torre himself to determine certain wheter Mr. Torre did dump all of the chemicals he received from Lyons Wrecking at the Hooker Road Site. Mr. Wright said that this may be difficult since Mr. Torre is no longer answering his telephone in apparent apprehension of his involvement in this affair.

Phil Stewart

FROM DATE

cc: D.W.Q.C.,

PLS/jdb

.A.S.A.) c/

c/o Wilton Burnette and Elmo Lunn

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TENNESSEE OEPARTMENT PUBLIC HEALTH — EE.

Site No. 700 9808 44229

Ref. No. 700 9808 44229

	PARTMENT OF PUBLIC HEALTH	FROM	10	DATE
OFFICE CORRE	SPONDENCE			
TATE:	June 25, 1976 ORM 6/29	- F8		Elle
	JGM 4/2 LP 7/2	<u>Z</u>		altor
	PLS 7/0	_	HAM	200
TO:	The Files RDL 5/7 JDH 7/9	_	Co	Triply
FROM:	Philip L. Stewart and Jack R. McCormick AZE	E		13.4 /25
SUBJECT:	Dy Thorm Chamical Company Investigation KDS 7//4		CC:	Lutex
	by-therm chemical company investigation $WFS \frac{7-1}{2}$	_	1	Nonce IW=9
				min
			-	
	1076 V	• Con-11	The second second	101-570
	June 16, 1976, V. Wayne McCoy with Resourc called to report evidence which he believed might ad		ants lity	hom:0
	to Lutex Chemical's claim that they could not have p charged the quantity of aromatics into the City Sewe			100
	have been necessary to produce the high concentratio	ns of bip	henyl -	com:
	and naphthalenes in South Chickamauga Creek and the treatment plant during the recent crises. McCoy sta		Sewage	e: WQ
	建筑中的 的现在分词,这种一种自己的一种,但是是一种的一种。	阿敦尼主		aeW .
	1. Lyons Wrecking Service, 4615 Maria Str was contracted by Dy-Therm Chemical Co			% Elso
	to remove and dispose debris from the	رز ال	7	E Charles 1
	Therm fire which occurred on April 10, The debris consisted of a couple of tr		/	J CIOIC)
	loads of charred building material and which was used to absorb spilled chemic		ci Phai	touses
	Also, twenty (20) fifty-five gallon dr	ms	Han	Vitton
	(9,000 lbs.) of dye carrier were invol	∕e d.	$(\mathcal{I}_{\mathcal{I}})$	MIS
	2. Lyons Wrecking took the debris and carr		111	1711/5 1891/6 11/60
FROM DATE	to the Summit Landfill. The Summit Landfill. The Summit Landfill employees refused to allow the dru		1the	11/60
	or carrier in the landfill (I am not continuous whether the debris was accepted).	ertain		
TO				
	3. Lyons then subcontracted Mr. Joe Torre Road, to dispose of the carrier.	, коу		
	4. Mr. Torre says that on the weekend price repairs to the fish kill (the actual police rep	ort		
	says "sometime around May 10th through 15th"), he took the drums back to the			
	Summit Landfill and they were accepted			
	Mr. Torre says he does not remember the exact day.			
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TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE:

June 25, 1976

TO:

The Files

FROM:

Philip L. Stewart and Jack R. McCormick

SUBJECT:

Dy-Therm Chemical Company Investigation

Page Two:

- 5. The landfill employees say that Mr. Torre did not bring the carrier back to the landfill.
- 6. The above information was gained from Mr. Jerry Evans with Commissioner Roberts. Mr. Evans is with the Arson Squad which cannot take the matter any further, since it is a civil matter.

Mr. McCoy feels that the Division of Water Quality Control should further investigate to resolve the contradiction concerning the disposal of the 20 drums of dye carrier since criminal action under the Water Quality Control Act may have been committed if the carrier was dumped in the State waters by Mr. Torre. Mr. McCoy was told that the matter would be discussed with Jack McCormick.

At 2:15 p.m., on June 16th, "Bunky" Wright with the City of Chattanooga called to report that he had found where he thought the 20 missing drums of chemical from Dy-Therm had been dumped. Joe Torre had blurted out to him over the phone that he had dumped them down by Hooker Road. Wright had gone out first on June 16 to search for the dump site. He found nothing along South Chickamauga Creek. He had, however, found where he thought the drums were dumped in an illegal dump just off Hooker Road 50 to 75 yards from Chattanooga Creek. One drum half full of solid napthalene was still present. He had samples of the napthalene and the soaked rubbish.

Jack McCormick and Philip Stewart went with Wright to the site at about 3:00 p.m. on the same date. The smell at the dump site was very similar to the Lutex type smell. Small pools of liquid and large stains were present in roughly a 25 x 25 foot area. Some of the liquid was the white surfactant while some was the solvent type material which had partially dissolved pieces of asphalt in the area. Sampels and pictures were taken. This is a bad dump which is undoubtedly polluting Chattanooga Creek -- not even considering the Dy-Therm Chemicals. Action by Solid Waste Management Division will be sought.

-We then, after checking a few more dump sites in the area, went to the site of the Dy-Therm fire. Still on site were 51 drums (55 gallon capacity) containing various amounts of the textile type chemicals --

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TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

ATE:

June 25, 1976

TO:

The Files

FROM:

Philip L. Stewart and Jack R. McCormick

SUBJECT:

Dy-Therm Chemical Company Investigation

Page Three:

FROM TO DATE

smelling very much like Lutex. The chemicals were (by smell)—the mixed dye carrier, the mixed surfactant, isopropyl-alcohol-and methyl-benzoate. None of the drums had labels, except for the methyl-benzoate. None of the drums had labels, except for the company name; Textile-light Chemicals, Inc., P. O. Box 271, Gallaher Road, Dalton, Georgia 30720 (404-226-7133). Inquiry will be made as to what will be done with these remaining chemicals.

JRM:PLS:sks

Jack R. McCormick

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FROM

Site No. 700 9808 44 229

Ref. No. 18 5

COMPLAINT FORM

LAINT FORM.
(HOOKER RD BRIDGE
FDM-12Feb88

Complainant Name Steve Kelley Address Gity of Chatt, City Received By Guy Moose Date	Tel. No. 6/5/757-518
Address City of Chatt, City	County 546 9
Received By Guy Moose Date	Time
Name of Complaintee Wille Powell Add	lress <u>: 4900 Hooker</u> K
Directions	
Nature of Complaint Demo, household	garbage dump
site.	
OralX	
Written	_ Miss Annete
Investigation - Findings and Action Taken $5-30-8$	6- Wagne Exitte
the moose visited the site and of	ofe with arnets
Goins, assistant to Mr. Powell.	She stated that
Mr. Powell was out for the mo.	ment. Delft massage
At him to call me to set up	Time to meet
on site, 6-13-86- west the	. Lite will
Vin Children - sit is bli	
I wast coursed wille Power	
for our 10:00 Am Appoint MINT.	me 16, 1986 - Dito
- Clean of up of coursed.	
Signature A. M. Moore, Date	6-18-1986
Huy 5-10' deep?; 22-3acres? 3/88	
Conso	



4900 HOOKER ROAD
CHATTANOOGA, TENNESSEE 37407
P. O. BOX 2687
(615) 867-3348
REASONABLE PRICES

WILLIE'S USED CARS

4900 HOOKER ROAD P. O. BOX 2687 CHATTANOOGA, TN 37407

(615) 867-3348

Site No. 7ND 980844229

TENNESSE	EE DEPARTMENT OF HEALTH AND ENVIRONMENT		5000	1
	DRRESPONDENCE		FROM	1
0.710200	5///LG/			<u> </u>
DATE:	December 10, 1987			
TO:	SIU Files			
FROM:	Ferman D. Miller	-		
SUBJECT:	Details of Telecon - pertinent site information			
	On <u>December 8, 1987</u> at <u>10:55</u> (a.m./p.m.	Fer	man D. Mi	ller
	of IN Division of Superfund Contact	ed/was	contacted	by
	S.M. Warren (1) of Hamilt	on Con	crete Prod	ducts (Ret
	by telephone regarding Chattanooga Dumps	ş		
	Details of conversation:			
	Following a telecon by T. Damiano to M. Warren re	gardir	g the 38t	h Street
	Dump, APD suggested that Mr. S.M. Warren may be	good	contact f	or
	the history on dumps DSF is investigating. My no	tes we	re·	
	#33596 Old Walker (Astec), Jerome and Hamill			3 3 4 4 5 -
	mostly foundry sand and demolition debris.			
	#22606 Howard High, South Market Street: fou	ndry s	and	· · · · · · · · · · · · · · · · · · ·
	and construction by Dave Brown			
FROM DATE	#33622 Chattanooga Glass, Near Hooker Road Br	idge:		· · · · · · · · · · · · · · · · · · ·
	Waste glass and process sand			
	#33586 Mid-State Materials-East, Wilson Road:			
	Na knowledge			
	1) Telephone 820-1129, address 1509 Chickamauga T 30750. S. M. Warren is the father of Michael. agent regarding the 38th Street Dump. SMW is 38th Street Dump.	Mich	2 oi lee	M to
			£	
-				

2,

DATE

- #33590 Hooker Road Bridge: Never authorized, individual dumping not companies.
- #33626 Morgan Street, between Chattanooga Creek and Morgan-extended:
 Did not remember but probably construction rubble and foundry
 sand. Mentioned another active dump on 32nd Street near the
 Crawley Company.
- #33601 38th Street: Began using in the early 50's. Initially, fill from the City, then waste concrete. 15' deep over 10 years
- #33540 Montague Park, East 23rd Street: City Fill, Solids, not garbage.
- #33605 Farmers Market, East 11th Street: Foundry sand and cinders. Contamination may be from the old Gas Company which used coal as a feedstock.

Misc. Comments:

- 1. Around 1960, Hugh Thatcher, while building a Pure Oil Station at Main and Broad, struck old coke bottles at 20' depth.
- From Rossville Blvd to Cleo going east, and 35th to the I-24, extensive fill from demo debris.
- 3. Waste foundry sand was used widely as a base to put concrete floors on.
- 4. A public dump will be needed when the current one on 38th St. is closed. The Mayor (Gene Roberts) did not show any interest in this when questioned in the past.
- 5. There must be a large turnover of groundwater in Chattanooga because of the large usage.
 Southern Cellulose 4M gpd M=Million
 Rossville Yarns (SCT)
 Standard-Coosa Thatcher
 Dixie Yarns

Site No. 7ND 9808 44229

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT DATE FROM OFFICE CORRESPONDENCE DATE: February 16, 1988 TO: SIU Files FROM: F. D. Miller Details of Telecon - pertinent site information SUBJECT: February 16, 1988 at 10:10 (a.m./p.m. ofTN Division of Superfund (contacted) was contacted by of Alex's Used Foreign Car Parts Ms. Annette Goins by telephone regarding Hooker Road Bridge Dump. Details of conversation: I called for Willie Powell, who operates/owns a used car lot at the location as the foreign car parts business. Mr. Powell of this ERRIS list site in 1976 when the alleged chemical dumping occurred and during the fire in 1978. Both incidents were investigated by the Division of Water Quality Control Mr. Powell's lot was last inspected in 1986 by the Division of Solid Waste Management. Ms. Goins will have Mr. Powell return my call on February 22, when he I shall request his permission to enter and inspect the site returns. to include taking photographs, but not samples at this time tele: 867-3348 Touted him 11 Am, 22 Feb. He has poor health but is cooperative. Tentative wed 7/24, pm. Call in Am. Lee pad. tom Leave 130 Told Phil mon un

Misc. Comments:

- 1. There is not a hostile dog on-site
- 2. The locked gate and fence remain.
- Ms. Goins has worked there since 1962 and she said there was no chemical dumping. Same debris had been covered by dirt or stone.
- 4. The cotton cloth scraps supposedly were left by Mr. Hughes and burned by a local boy. The flames were 50 feet high.
- 5. She was quick to point out the other dump across Hooker Road and the roadside dumping that persists.

Site No. 700 9808 44229

Ref. No. 2/25

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

March 1, 1988

TO:

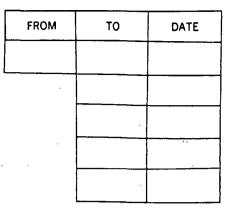
Hooker Road Bridge Dump File #33590

FROM:

Ferman D. Miller Jon

SUBJECT:

PRP - FOR SI



Ferman Miller and Tony Damiano went to the Hamilton County Courthouse for a records search of the boundary limits on the Hooker Road Bridge site.

For 4800 Hooker Road, the owner is James W. and Eva B. Powell. The tax bill is sent to Mr. Powell's business at 2807 Rossville Boulevard. The size of the lot at 4800 Hooker Road is 22 acres and is found on Map 167M, group A, parcel 3. Another part of their holdings is Map 168P.

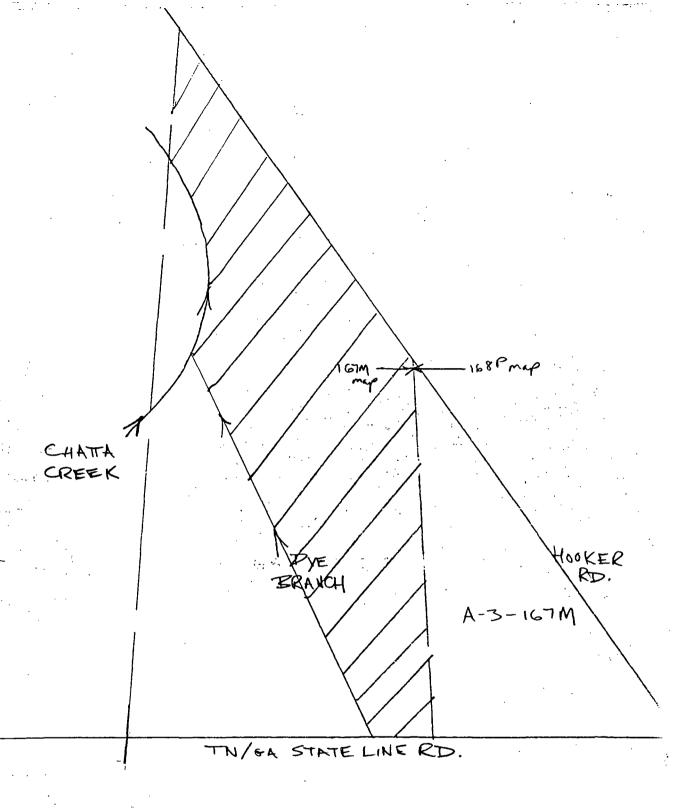
See the Attached map sketch made from the two maps in the Assessor's office.

In the Register's office, Book 1287 and page 288 was checked, and we learned that the Powells have owned 4800 Hooker Road since 1957, and the total size is 47.1 acres, for both adjacent holdings.

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Attachment

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Composite of 2 Assessor's Office Maps - Hamilton Co, TN HOOKER RD. BRIDGE DUMP File #33590 No Scale FDM 2 Mar 88 Site No. <u>TND 9808 44229</u>

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

DATE:

April 13, 1988

TO:

The Hooker Road Bridge Dump File Site # 33-590

FROM:

Robert L. Powell, TDSF Geologist

SUBJECT:

Geological Assessment of the Hooker Road Bridge Dump Site

LOCATION

The Hooker Road Bridge Dump is located in the Alton Park section of Chattanooga just north of the Tennessee-Georgia line. The site is bordered on the north and east by Hooker Road and on the west by Chattanooga Creek and a small tributary that runs in a north-south direction from down in Georgia. (See reference #1)

TOPOGRAPHY

The site lies in a valley of low relief between two prominent ridges known as Hawkins Ridge (to the west) and Missionary Ridge (to the east). Relief in the site vicinity is approximately 20 feet or less as the floodplain is very flat-lying along this section of Chattanooga Creek. (see Reference #1)

GEOLOGY

The site is underlain by a group of rocks known as the Ordovician-Cambrian Knox Group, Undifferentiated. This group is described as a dolomite and minor limestone, very siliceous, light- to dark-gray, fine-to coarse-grained, thin- to thick-bedded, and weathers to a charty rubble.

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The thickness is considered to be approximately 2600 feet thick. The Knox in the immediate vicinity of the site is mapped as a long narrow outcrop striking in a north-south direction that is controlled by thrust faults. Since relief is low formation boundaries are not as distinguished able and hence the area is mapped as a group.

A major thrust fault known as the Chattanooga Fault lies approximately 1200 feet to the west of the site. This fault trends in a notrh-south direction and semiparallel to other major thrust faults in East Tennessee. To the east the next major fault is the Missionary Ridge Fault which lies approximately 1.5 miles away. However, the area is complex and it is possible that less prominent thrusts are between this region the control of which is not well understood at present. (see reference #2)

HYDROLOGY; SURFACE

The site is drained by a small unnamed tributary which borders the site on the west. This tributary flows north-northwest and empties into the Chattanooga Creek. Chattanooga Creek which also borders a portion of the

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site on the west meanders north and west and ultimately empties into the Tennessee River in the Moccasin Bend area a few miles northwest of the site. (see reference #3)

HYDROLOGY; SUBSURFACE

The prominent unconsolidated material underlying the site is alluvium. It is not known to be an important source of groundwater probably due to its thin nature. However, groundwater in units of the Knox Group can be quite substantial with yields of 100 g.p.m. or more. The availability of groundwater in these limestones and dolomites is primarily dependent on the distribution of fractures and the amount of solutionally enlarged zones. Predicting the yield of a well is difficult because the distribution of such conduits is very often erratic. (Reference #4) This is possibly due to the siliceous nature of some of the Knox units. In the vicinity of the site it is believed that water is transmitted very readily in the Knox because just to the north there is an area of obvious sinkholes. (Reference #2, p. 59 and Reference #3)

There is a list of inventoried Industrial wells in this vicinity of Chattanooga. The depths of these wells range from tens of feet to over 1300 feet deep. The value of this list is that it indicates that these limestones and dolomites yield substantial amounts of water, however, the details of these well logs is suspect and therefore not considered very reliable. (Reference #5)

SOILS

The prominent soil type that has been mapped in the site vicinity is known as the Tupelo Silt Loam (Tu). The Tupelo Silt Loam is a somewhat poorly drained, nearly level and gently sloping soil on stream terraces, flat slopes of ridges, and in depressions on the uplands. Slopes range from 0 to 3 percent. The upper 8 inches is a yellowish-brown silty clay mottled in shades of brown and gray. The underlying material is a gray clay that extends to a depth of 60 inches or more.

This soil is low in organic matter and ranges from slightly acid to strongly acid throughout. The permeability is slow, and the available water capacity is moderate.

In the northeast corner of the site between Hooker Road and Chattanooga. Creek there is a small section mapped as Arents, gently sloping (ArB). This map unit consists of soils that have been moved or deeply mixed by machinery. Most of this unit is a result of cutting and filling to shape the land surface. These areas therefore are primarily fill material and very heterogeneous. (Reference #6)

REFERENCES

- 1. (1982) Fort Oglethorpe, GA-TN Quadrangle Topographic Map, 106-NE.
- 2. Edward T. Luther (1979): Geology of Hamilton County, TN, Bulletin 79, Tennessee Division of Geology, pp. 19, 119, and geologic map section.
- 3. (1976) Chattanooga Quadrangle Topographic Map, 105-SE.
- 4. G. D. DeBuchananne and R. M. Richardson (1956): Groundwater Resources of East Tennessee, Bulletin 58, Tennessee Division of Geology, p. 186.
- 5. (1987) Division of Groundwater Protection Printout of South Chattanooga wells.
- 6. (1982) Soil Survey of Hamilton County, TN U.S. Department of Agriculture, Soil Conservation Service, P. 11,36, and map # 65.

Site No. 7ND 9808 44229

Ref. No. 4

Site No. 7ND 980844229

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Site No. 700 78084/229.

SURVEY OF CHATTANOOGA CREEK--MOUTH TO STATE LINE AQUATIC FLESH, WATER QUALITY, SEDIMENT, AND BENTHIC BIOLOGY WITH

DATA PRESENTATION ON HAMILL ROAD DUMP CHATTANOOGA, TENNESSEE

1981 and 1982

PREPARED BY:
CHATTANOOGA BASIN OFFICE OF
DIVISION OF WATER MANAGEMENT
TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

JUNE 1983

Site No. 7WD 9808 44229

HOOKER RD. BRIDGE DUMP TND 98084429

PLANNING DISTRICT ANALYSIS

CHATTANOOGA-HAMILTON COUNTY, TENNESSEE

P.D. #2 South Center City

Prepared by:

Chattanooga-Hamilton County Regional Planning Commission

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Ann Sitton, Secretary
*Carol Wilmhoff, Secretary

Summer, 1987

^{*}Major Staff Members Assigned to Project

TABLES AND MAPS

		PAGE NUMBER
ABL	ES	4
١.	Land Use Changes	8
ż.	Population Projections	8
3.	Gross Density	. 9
4.	Population	0
5.	Race Race	10
6.	Age Structure	10
	Percent High School Graduates	11
8.	Percent With 4 Years of More of College	3.00 (1.10 (
M - 1.	Family Types	12
10.	Median Family Income and Changes	12
11.	Families with Income Below Poverty Level	35 45 15 15 34 13 14
	. Place of Employment	.15
13.	. Housing Occupancy	15
	. Structural Age	16
15.	Housing Units Without Complete Kitchens	17
	Housing Units Without Plumbing	17
	. Housing Unit Projections	1/2 1/2

APPENDIX (MAPS)

Population and housing data for 1960, 1970 and 1980 were prepared by the U.S. Bureau of the Census. Population projections for 1985 and subsequent years, and the land use and land area measurements, were prepared by the Chattanooga-Hamilton County Regional Planning Commission.

PLANNING DISTRICT 2 ANALYSIS

INTRODUCTION

Location

Planning District 2 is within the southwestern part of the City of Chattanooga. It is bounded:

- on the north by I-24 and Chattanooga Creek,
- on the east by the Town of East Ridge,
- on the south by the Tennessee-Georgia state line, and
- on the west by the Chattanooga city limits at the foot of Lookout Mountain.

Census Tracts 18, 19, (23), 24 and 25 are included in this district.

Locally, Census tract 18 is known as St. Elmo, Census Tract 19 is known as Alton Park, and Census Tracts (23) 24, and 25 are known as East Lake and Missionary Ridge.

History

The settlement in this area probably began between 1860 and 1885. An 1986 lithograph shows Broad Street, a mill, the railroad crossing Chattanooga Creek, a bridge across Chattanooga Creek in the vicinity of Alton Park Boulevard, and Rossville Boulevard.

East Lake (Census Tracts 23) 24 and 25) was annexed to the City of Chattanooga in 1925.

St. Elmo (Census Tract 18), Alton Park (Census Tract 19) and Missionary Ridge were incorporated satellite cities, but gave up their charters and were annexed to Chattanooga in 1930.

LAND USES AND PHYSICAL FEATURES

The largest single category of land use in Planning District 2 is the "vacant" category. 42.5% of this land is subject to overflow, and 32.2% is too steep for easy development, but that still leaves about 460 acres in the district that could be developed relatively easily. The next largest land use category is residential with 26.2%, followed by streets with 15.2% of the land area.

For many reasons, not the least of which was the presence of a large amount of railroad trackage, Planning District 2 contains much of Chattanooga's older industrial development. While industrial uses might seem to dominate the district, that category of land use occupies only 7.5% of the total area and 10.6% of the developed area. The foundries and coal-tar based chemical operations tend to be located in the Alton Park area, while distribution and light industry are more widely distributed.

Trends

· 一个

Throughout Planning District 2 a decrease in land devoted to single-family residential use is occurring. This can be explained somewhat by the conversion of single-family structures to two unit structures, particularly in Census Tract 18 (Saint Elmo). In Census Tracts 24 and 25 new duplex development along the base of Missionary Ridge has occurred and the decline in single-family uses is more frequently due to the conversion of single-family residential properties along Dodds Avenue to commercial use.

A moderate increase in commercial land is being experienced in all areas of the district except Saint Elmo where a slight decrease has occurred. The district is experiencing some expansion of industrial areas in Census Tracts 19, 23, and 24. However, field studies indicate that much of the existing industrial land in these areas is underutilized.

Opportunities

Roughly one third of the total acreage in Planning District 2 remains vacant. However, large areas prone to flooding make up most of this acreage. Much of the rest is difficult to develop due to steep slopes (Missionary Ridge, the ridge between St. Elmo and Alton Park, and Lookout Mountain). Still, land for development and redevelopment is available and can be utilized with effective development controls in some areas and private and public market incentives in others.



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Tract 23		Tra	Tract 24			
Land Use	1985 Acres	1972	1985 %	1985 Acres	1972 %	1985 %
Residential	182.6	16.3	16.9	374.1	50.7	49.1
Single-Family	159.0	15.0	14.7	342.4	49.0	44.9
Duplexes	19.5	1.0	1.8	22.5	1.2	3.0
Multi-Family	2.5	.1	1.8	8.0		1.0
Residential Parking	.0			.0		
Trailers	.4			.0		
Vacant	1.1	.2	1200	1.2	.3	.2
Industrial	85.0	7.4	7.9	25.8	3.1	3.4
Commercial	105.8	5.5	9.8	55.3	6.0	7.3
Institutional	23.0	1.6	2.1	20.9	2.0	2.7
Recreation	2.6	•	.2	10.5	1.5	1.4
Transportation Communication and Utilities	34.0	3.0	3.2	7.6	.9	1.0
Agriculture	.4	- : ·		.0		<u> </u>
Streets	154.4	13.8	14.3	162,1	21.0	21.3
Yacant	482.0	51.6	44.7	105.7	14.9	13.9
Water	9.5	.8	. 9	.0	-	-
TOTAL	1,079.3	100.0	100.0	762.0	100.0	100.0



POPULATION PROJECTIONS

CENSUS TRACT	1980	1985	1990	1995	2000	1980-2000 % Change
18	4,188	3,883	3,577	3,162	2,748	- 34.4
19	7,515	7,027	6,539	6,189	5,839	- 22.3
23	1,925	1,702	1,480	1,232	983	- 49.0
24	4,705	4,314	3,922	3,546	3,170	- 32.6
25	5,064	4,570	4,077	3,745	3,414	- 32.6
Total District	23,397	21,496	19,595	17,874	16,154	- 30.6
County	287,740	297,004	306,267	314,294	322,320	+ 12.01

GROSS DENSITY POPULATION PER ACRE

CENSUS_TRACTS	1960	1970	1980
18 19	3.1 5.0	2.9 5.0	4.2
23	3.1	2.3	1.8
24	8.2	7.1	6.2
25	7.2	5.3	5.1
Total District	4.9	4.3	3.7
County	6	.7	.8

POPULATION

Characteristics

The population in Planning District 2 is racially mixed with a higher percentage of minorities than the city as a whole. Generally, the East Lake area remains predominantly white, the Alton Park area is predominantly black, and Saint Elmo is mixed. Overall, the district's population has more elderly citizens and more school age children by percentage than the SMSA average. Census Tract 19's youth population is well above the average while the other tracts are more typical in that regard. All census tracts except 19 have elderly populations above the SMSA average.

The educational levels of the district's population throughout are well below the city average.

Family incomes throughout the district are also well below the city and county averages. Only

Census Tract 24 has a percentage of family incomes below the poverty level that fall below the

city and county median. Over a third of the families in Planning District 2 are headed by single

women. In Census Tract 19 single parenthood has reached crisis proportions.

Trends

A continued decline in population is projected for all census tracts in Planning District 2. Meanwhile, the minority percentage of the total population increases. The percentage of elderly in the population is increasing in all census tracts, while the school age population is decreasing. Educational level averages are increasing in all Census Tracts except 18. Real income is falling on average in Census Tracts 18, 19 and 25, and rising in Tracts 23 and 24.



POPULATION

Tract	1960	1970	Ehange	1980	2 Change
18	5,372	4,948	- 7.9	4,188	- 15.4
19	8,984	8,901	- 0.9	7,515	- 15.6
23	3,292	2,429	- 26.2	1,925	- 20.7
24	6,283	5,398	- 14.1	4,705	- 12.8
25	7,161	5,304	- 25.9	5,064	- 4.5
Total District	31,092	26,980	- 13.2	23,397	- 13.3
City	130,009	119,082	8.4	169,565	42.4
County	237,905	254,236	6.9	287,740	13.2
SMSA	283,169	304,927	7.7	426,540	39.9

RACE

		960		70	1980
Tract	% White	% Non-White	3	% Non-White	% White Non-White
18	73.0	27.0	72.4	27.6	59.9 40.1
19	8.2	91.8	2.6	97.4	1.4 98.6
23	84.9	15.1	86.4	13.6	84.9 15.1
24	99.2	0.8	99.0	1.0	97.9 2.1
25	91.3	8.7	90.3	9.7	76.8 23.2
Total District	65.1	34.9	59.5	40.5	54.5 45.5
City	66.7	33.3	64.0	36.0	67.7 32.3
County	80.1	19.9	81.6	18.4	79.9 20.1
SMSA	82.4	17.6	83.8	16.2	85.4 14.6

HOUSING UNITS WITHOUT COMPLETE PLUMBING

1360			1970	, 	1980	1980		
Census Tracts	Total Housing Units	7% of Total W/O Plumb	Total Housing Units	Total W/O Plumb	Total Housing Units	7% of Total W/O Plumb		
								
18 19	1804 2129	7.9 22.2	1830 2543	1.4	1757 2346	.9		
23	942	29.3	837	4.8	766	.4		
24	2013	17.0	1984	1.3	1988	1.4		
25	2291	9.2	2064	.8	2145	.6		
Total	9179	15.7	9258	1.3	9002	1.0		
City	41979	19.9	43857	2.1	66583	.9		
County	74377	19.5	87473	4.0	109969	1.2		
SMSA	87929	21.0	103879	5.0	160615	1.9		

HOUSING UNIT PROJECTIONS

Census Tract	1980	1985	1990	1995	2000	% Change (1980-200	00)
18	1,757	1,706	1,654	1,524	1,395	-20.6	,
19	2,346	2,366	2,385	2,353	2,321	- 1.1	
23	766	710	653	565	477	-37.7	
24	1,988	1,938	1,887	1,784	1,680	-15.5	٠.
25	2,145	2,063	1,982	1,893	1,803	-15.9	
Total District	9,002	8,781	8,561	8,119	7,676	₽ 14.7	
County	109,969	120,423	130,876	139,973	149,070	35.6	



Recreation Facilities

Alton Park Recreation Center

McCallie Homes Recreation Center

Emma Wheeler Recreation Center

Poss Homes Recreation Center

East Lake Courts Recreation Center

East Lake Recreation Center

East Lake Park

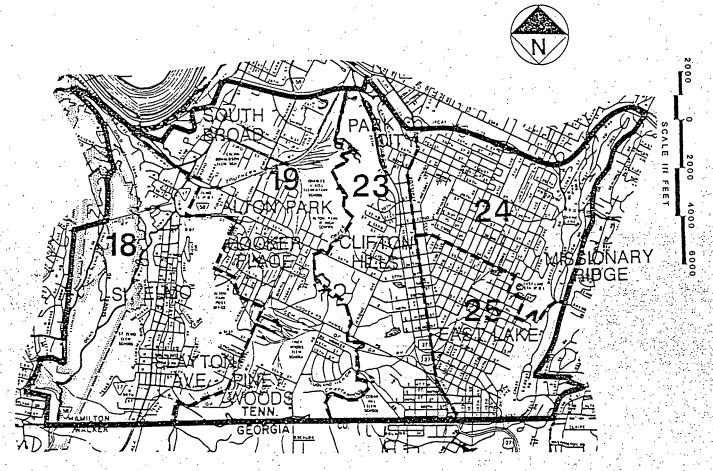
Cedar Hill Playground

Piney Wood Playground

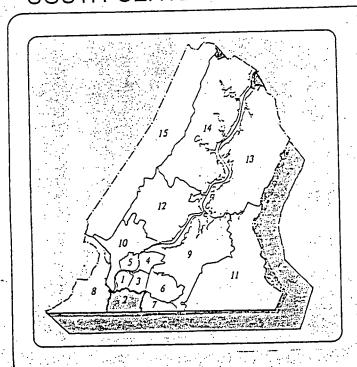
Park City Playground

Bragg Reservation

CENSUS TRACTS AND NEIGHBORHOODS



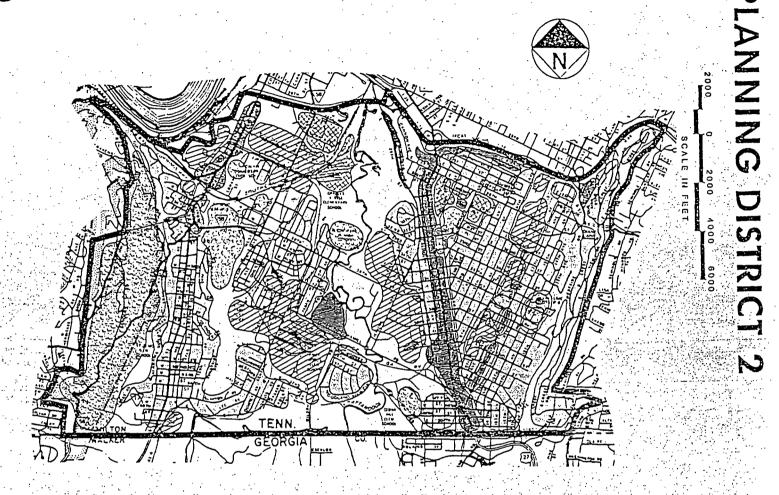
SOUTH CENTER CITY



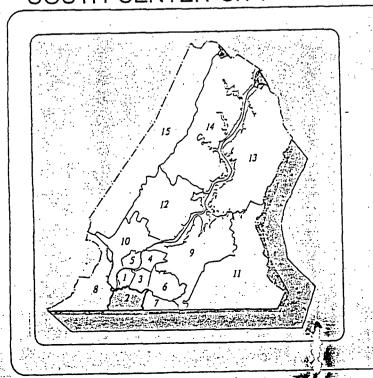
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--- CENSUS TRACT BOUNDARIES

EXISTING LAND USE



SOUTH CENTER CITY



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RESIDENTIAL COMMERCIAL

INDUSTRIAL
PUBLIC/SEMI-PUBLIC

TRANSPORTATION

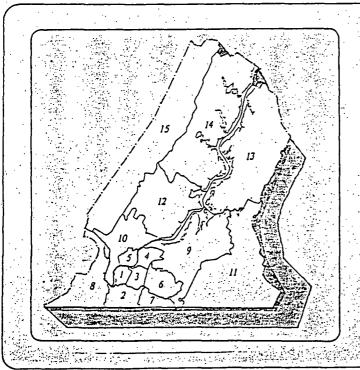
VACANT

PLANNING DISTRICT 2

PUBLIC FACILITIES



SOUTH CENTER CITY



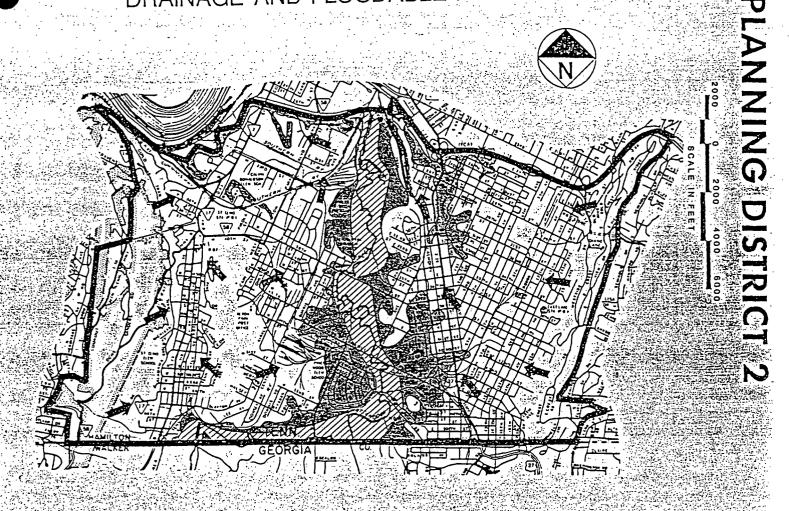
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- SCHOOLS
- ▲ FIRE STATIONS
- RECREACTION CENTERS

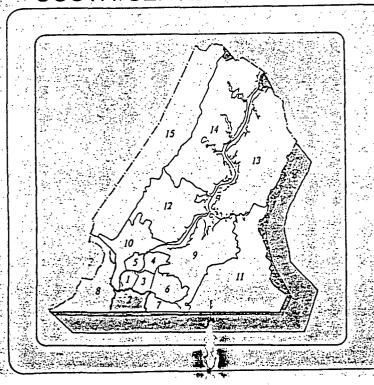




DRAINAGE AND FLOODABLE AREAS



SOUTH CENTER CITY



Legend:

FLOW OF DRAINAGE
FLOOD HAZARD AREA
(100 year flood)
FLOODWAY